```
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COST IN U.S. DOLLARS                            SINCE FILE      TOTAL
                                                     ENTRY    SESSION
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COST IN U.S. DOLLARS                            SINCE FILE      TOTAL
                                                     ENTRY    SESSION
FULL ESTIMATED COST                                   7.14       8.29

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STRUCTURE FILE UPDATES:   25 JUL 2011  HIGHEST RN 1313702-17-8
DICTIONARY FILE UPDATES:  25 JUL 2011  HIGHEST RN 1313702-17-8

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Uploading C:\Users\randerson\Documents\STN Express 8.4\Queries\QUERIES\10551414.str
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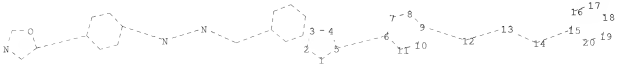

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chain nodes :
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12  13  14
ring nodes :
1  2  3  4  5  6  7  8  9  10  11  15  16  17  18  19  20
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5-6  9-12  12-13  13-14  14-15
ring bonds :
1-2  1-5  2-3  3-4  4-5  6-7  6-11  7-8  8-9  9-10  10-11  15-16  15-20  16-17
17-18  18-19  19-20
exact/norm bonds :
1-2  1-5  2-3  3-4  4-5  5-6  6-7  6-11  7-8  8-9  9-10  9-12  10-11  12-13  13-14
14-15  15-16  15-20  16-17  17-18  18-19  19-20


Match level :
1:Atom  2:Atom  3:Atom  4:Atom  5:Atom  6:Atom  7:Atom  8:Atom  9:Atom  10:Atom
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L3      STRUCTURE UPLOADED

=> d
L3 HAS NO ANSWERS
L3              STR
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Structure attributes must be viewed using STN Express query preparation.


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SAMPLE SEARCH INITIATED 11:23:32 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -      409 TO ITERATE

100.0% PROCESSED      409 ITERATIONS                                  5 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:          6967 TO     9393
PROJECTED ANSWERS:                5 TO      234

L4            5 SEA SSS SAM L3

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FULL SEARCH INITIATED 11:23:37 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -     8454 TO ITERATE

100.0% PROCESSED     8454 ITERATIONS                                 84 ANSWERS
SEARCH TIME: 00.00.01

L5           84 SEA SSS FUL L3

=> s l5 and caplus/lc
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      75279646 CAPLUS/LC
L6           83 L5 AND CAPLUS/LC

=> s l5 not l6
L7            1 L5 NOT L6

=> d
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L7 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2011 ACS on STN
RN 253965-58-6 REGISTRY
ED Entered STN: 31 Jan 2000
CN Benzaldehyde, 4-chloro-, 2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX
    NAME)
OTHER CA INDEX NAMES:
CN Benzaldehyde, 4-chloro-, [4-(5-oxazolyl)phenyl]hydrazone (9CI)
MF C16 H12 Cl N3 O
SR CAS Client Services
LC STN Files: CHEMCATS

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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=> fil caplus
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                      ENTRY    SESSION
FULL ESTIMATED COST                                  204.71     213.00

FILE 'CAPLUS' ENTERED AT 11:23:57 ON 26 JUL 2011
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FILE COVERS 1907 - 26 Jul 2011  VOL 155 ISS 5
FILE LAST UPDATED: 25 Jul 2011  (20110725/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED:  Jun 2011
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE:  Jun 2011

CAplus now includes complete International Patent Classification (IPC)
reclassification data for the first quarter of 2011.

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This file contains CAS Registry Numbers for easy and accurate
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     (FILE 'HOME' ENTERED AT 11:10:27 ON 26 JUL 2011)

     FILE 'REGISTRY' ENTERED AT 11:13:36 ON 26 JUL 2011
L1             STRUCTURE UPLOADED
L2           5 S L1

     FILE 'REGISTRY' ENTERED AT 11:23:07 ON 26 JUL 2011
L3             STRUCTURE UPLOADED
L4           5 S L3
L5          84 S L3 FULL
L6          83 S L5 AND CAPLUS/LC
L7           1 S L5 NOT L6

     FILE 'CAPLUS' ENTERED AT 11:23:57 ON 26 JUL 2011

=> s l6
L8           3 L6

=> d ibib abs hitstr 1-3
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ACCESSION NUMBER: 2007:1390731 CAPLUS
DOCUMENT NUMBER: 148:158914
TITLE: Orally administered amyloidophilic compounds are effective in prolonging the incubation periods of animals cerebrally infected with prion diseases in a prion strain-dependent manner
AUTHOR(S): Kawasaki, Yuri; Kasuya, Keiichi; Chen, Chun-jen; Tezuka, Kenta; Sakasegawa, Yuji; Doh-ura, Katsumi
CORPORATE SOURCE: Department of Prion Research, Tohoku University Graduate School of Medicine, Sendai, Japan
SOURCE: Journal of Virology (2007), 81(23), 12889-12898
CODEN: JOVIAM; ISSN: 0022-538X
PUBLISHER: American Society for Microbiology
DOCUMENT TYPE: Journal
LANGUAGE: English

AB The establishment of effective therapeutic interventions for prion diseases is necessary. We report on a newly developed amyloidophilic compound that displays therapeutic efficacy when administered orally. This compound inhibited abnormal prion protein formation in prion-infected neuroblastoma cells in a prion strain-dependent manner; effectively for RML prion and marginally for 22L prion and Fukuoka-1 prion. When the high-est dose (0.2% [w/w] in feed) was given orally to cerebrally RML prion-inoculated mice from inoculation until the terminal stage of disease, it extended the incubation periods by 2.3 times compared to the control. The compound exerted therapeutic efficacy in a prion strain-dependent manner such as that observed in the cell culture study; neat effective for RML prion, less effective for 22L prion or Fukuoka-1 prion, and marginally effective for 263K prion. Its effectiveness depended on an earlier start of administration. The glycoform pattern of the abnormal prion protein in the treated mice was modified and showed predominance of the diglycosylated form, which resembled that of 263K prion, suggesting that diglycosylated forms of abnormal prion protein might be least sensitive or resistant to the compound. The mechanism of the prion strain-dependent effectiveness needs to be elucidated and managed. Nevertheless, the identification of an orally available amyloidophilic chemical encourages the pursuit of chemotherapy for prion diseases.

IT 774237-19-4 774237-49-9 774237-60-4
1001853-74-2
RL: PAC (Pharmacological activity); PKT (Pharmacokinetics); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(orally administered amyloidophilic compds. are effective in prolonging the incubation periods of animals cerebrally infected with prion diseases in a prion strain-dependent manner)

RN 774237-19-4 CAPLUS
CN Benzaldehyde, 4-[1-piperazinyl]-, 2-[4-[5-oxazolyl]phenyl]hydrazone (CA INDEX NAME)

RN 774237-60-4 CAPLUS
CN Benzaldehyde, 4-[(methylamino)methyl]-, 2-[4-[5-oxazolyl]phenyl]hydrazone (CA INDEX NAME)

RN 1001853-74-2 CAPLUS
CN Benzaldehyde, 4-(hydroxymethyl)-, 2-[4-[5-oxazolyl]phenyl]hydrazone (CA INDEX NAME)

PAGE 1-A

PAGE 2-A

RN 774237-49-9 CAPLUS
CN Benzenesulfonamide, 4-[[2-[4-[5-oxazolyl]phenyl]hydrazinylidene]methyl]- (CA INDEX NAME)

OS.CITING REF COUNT: 15 THERE ARE 15 CAPLUS RECORDS THAT CITE THIS RECORD (15 CITINGS)
REFERENCE COUNT: 32 THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ACCESSION NUMBER: 2004:857547 CAPLUS
DOCUMENT NUMBER: 141:350174
TITLE: Preparation of benzaldehyde or heterocycle carboxaldehyde hydrazone derivatives as inhibitors of agglutination and/or deposition of an amyloid protein or amyloid-like protein
INVENTOR(S): Kawagoe, Keiichi; Motoki, Kayoko; Odagiri, Takashi; Suzuki, Nobuyuki; Chen, Chun-Jen; Mimura, Tetsuya
PATENT ASSIGNEE(S): Daiichi Pharmaceutical Co., Ltd., Japan
SOURCE: PCT Int. Appl., 236 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
WO 2004087641	A1	20041014	WO 2004-JP4607		20040331
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW					
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US 20060276433	A1	20061207	US 2005-551414		20050930
PRIORITY APPLN. INFO.:			JP 2003-94257	A	20030331
			WO 2004-JP4607	W	20040331

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): MARPAT 141:350174
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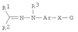


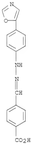
I

AB Compds. represented by the general formula (I), salts thereof, or solvates of either[R1, R2 = H, alkyl, alkenyl, alkynyl, aralkyl, NH2, alkylamino, cyano, halo, haloalkyl, haloalkenyl, haloalkynyl, CO2H, alkoxycarbonyl, CONH2, N-alkylcarbamoyl, N,N-dialkylcarbamoyl, N-hydroxyalkylcarbamoyl, each (un)substituted aryl, (un)saturated 5- to 7-membered heterocyclyl, (un)saturated bi- or tricyclic condensed heterocyclyl, arylalkenyl, (un)saturated

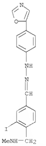
heterocyclylalkenyl, or (un)satd. bi- or tricyclic condensed heterocyclylalkenyl;R3 = H, (un)substituted alkyl, acyl, alkoxycarbonyl, Ar = a divalent group derived from arom. hydrocarbon, (un)satd. 5- to 7-membered heterocyclic group, or (un)satd. bi- or tricyclic condensed heterocyclic group; X = a single bond, a single bond, each (un)substituted linear or branched C1-3 alkylene, C1-3 alkenylene, or C1-3 alkynylene, CO; G = halo, haloalkyl, haloalkenyl, haloalkynyl, alkoxy, alkoxycarbonyl, N-alkylamino, N,N-dialkylamino, each (un)substituted (un)satd. bi- or tricyclic condensed hydrocarbyl, (un)satd. 5- to 7-membered heterocyclyl, or (un)satd. bi- or tricyclic heterocyclyl] are prepd. Also disclosed is (1) an agent for inhibiting the agglutination and/or deposition of an amyloid protein or amyloid-like protein or (2) a preventive and/or remedy for conformational diseases or diseases caused by amyloid accumulation, which contains the compd. I, its salt, or solvate thereof. In particular, disclosed is a preventive and/or remedy for Alzheimer's disease, Down's syndrome, Creutzfeldt-Jakob disease, type II diabetes, dialysis amyloidosis, AA amyloidosis, Gerstmann-Straussler-Scheinker (GSS) syndrome, Muckle-Wells syndrome, localized atrial amyloidosis, thyroid medullary carcinoma, skin amyloidosis, localized tuberous amyloidosis, AL amyloidosis, AH amyloidosis, familial Mediterranean fever, Parkinson's disease, tauopathy, ALS, or CAG repeat disease. A radiodiagnostic agent contg. radionuclide-labeled, in particular radioactive iodine-labeled compd. I is also disclosed. Thus, 1.0 g 4-(oxazol-5-yl)phenylhydrazine and 0.61 g 4-pyridinecarboxaldehyde were heated in ethanol at reflux overnight to give, after recrystn. from ethanol, 1.03 g 4-pyridinecarboxaldehyde N-[4-(oxazol-5-yl)phenyl]hydrazone (II). II inhibited the formation of amyloid from amyloid β protein with IC50 of 2.94 μM vs. 0.87 and 3.23 μM for Cogo Red and 2-(1,1-dicyanopropen-2-yl)-6-dimethylaminonaphthalene (DDNP), resp.

IT 774236-96-3P 774237-62-6P
RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(preparation of benzaldehyde or heterocycle carboxaldehyde hydrazone derivs. as inhibitors of agglutination and/or deposition of amyloid protein or amyloid-like protein)

RN 774236-96-3 CAPLUS
CN Benzoic acid, 4-[[2-[4-(5-oxazolyl)phenyl]hydrazinylidene]methyl]- (CA INDEX NAME)



RN 774237-62-6 CAPLUS
CN Benzaldehyde, 3-iodo-4-[(methylamino)methyl]-, 2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)



IT 774236-80-5P 774236-81-6P 774236-84-9P
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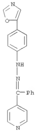
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of benzaldehyde or heterocycle carboxaldehyde hydrazone derivs. as inhibitors of agglutination and/or deposition of amyloid protein or amyloid-like protein)

RN 774236-80-5 CAPLUS
CN Methanone, phenyl-4-pyridinyl-, 2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)



RN 774236-81-6 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, 2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)

RN 774236-84-9 CAPLUS
CN Benzaldehyde, 2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)

RN 774236-85-0 CAPLUS
CN Benzaldehyde, 4-hydroxy-3-iodo-5-methoxy-,
2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)

RN 774236-89-4 CAPLUS
CN Benzaldehyde, 4-hydroxy-, 2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX
NAME)

RN 774236-90-7 CAPLUS
CN Benzaldehyde, 3-hydroxy-4-methoxy-, 2-[4-(5-oxazolyl)phenyl]hydrazone
(CA
INDEX NAME)

RN 774236-87-2 CAPLUS
CN Benzaldehyde, 4-hydroxy-3-methoxy-, 2-[4-(5-oxazolyl)phenyl]hydrazone
(CA
INDEX NAME)

RN 774236-88-3 CAPLUS
CN Benzaldehyde, 3,4-dimethoxy-, 2-[4-(5-oxazolyl)phenyl]hydrazone (CA
INDEX
NAME)

RN 774236-94-1 CAPLUS
CN Benzaldehyde, 4-[(2-hydroxyethyl)methylamino]-,
2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)

RN 774236-97-4 CAPLUS
CN Benzamide, N,N-dimethyl-4-[[2-[4-(5-
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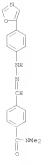

RN 774237-05-7 CAPLUS
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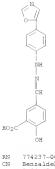

RN 774237-06-8 CAPLUS
CN Benzaldehyde, 4-[[2-(trifluoroethyl)methylamino]-, 2-[4-[5-oxazolyl]phenyl]hydrazone (CA INDEX NAME)

RN 774237-09-1 CAPLUS
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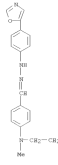

RN 774237-07-9 CAPLUS
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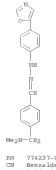

RN 774237-08-0 CAPLUS
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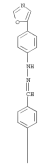

RN 774237-10-4 CAPLUS
CN Benzaldehyde, 4-(1-piperazinyl)-, 2-[4-[5-oxazolyl]phenyl]hydrazone (CA INDEX NAME)

PAGE 1-A

PAGE 2-A

RN 774237-11-5 CAPLUS
CN Benzamide, N-(2-hydroxyethyl)-4-[[2-[4-(5-oxazolyl)phenyl]hydrazinylidene]methyl]- (CA INDEX NAME)

PAGE 2-A

RN 774237-13-7 CAPLUS
CN Carbamic acid, [[4-[[4-[5-oxazolyl)phenyl]hydrazono]methyl]phenyl]methyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

RN 774237-14-8 CAPLUS
CN Benzaldehyde, 4-(aminomethyl)-, 2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)

PAGE 1-A

RN 774237-12-6 CAPLUS
CN Benzaldehyde, 4-[4-morpholinylmethyl)-, 2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)

PAGE 1-A

RN 774237-15-9 CAPLUS
CN Benzaldehyde, 3-[(dimethylamino)methyl]-, 2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)

RN 774237-16-0 CAPLUS
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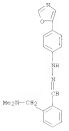

RN 774237-17-1 CAPLUS
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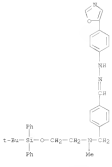
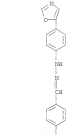
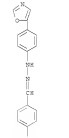


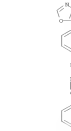
RN 774237-18-2 CAPLUS
CN Benzaldehyde, 4-[[(2-hydroxyethyl)methylamino]methyl]-, 2-[4-[5-oxazolyl]phenyl]hydrazone (CA INDEX NAME)



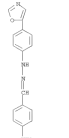
RN 774237-21-7 CAPLUS
CN Benzeneacetic acid, 4-[[2-[4-[5-oxazolyl]phenyl]hydrazinylidene]methyl]- (CA INDEX NAME)



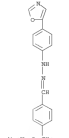
RN 774237-22-8 CAPLUS
CN Benzeneacetamide, N,N-dimethyl-4-[[2-[4-[5-oxazolyl]phenyl]hydrazinylidene]methyl]- (CA INDEX NAME)



RN 774237-19-3 CAPLUS
CN Acetamide, N-[4-[[2-[4-[5-oxazolyl]phenyl]hydrazinylidene]methyl]phenyl]- (CA INDEX NAME)



RN 774237-20-6 CAPLUS
CN Benzaldehyde, 4-[[(2-fluoroethyl)methylamino]methyl]-, 2-[4-[5-oxazolyl]phenyl]hydrazone (CA INDEX NAME)

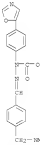


RN 774237-23-9 CAPLUS
CN Benzaldehyde, 4-[[4-methyl-1-piperazinyl)carbonyl]-, 1-[2-[4-[5-oxazolyl]phenyl]hydrazone] (CA INDEX NAME)

RN 774237-24-0 CAPLUS
CN Benzaldehyde, 4-[(dimethylamino)methyl]-,
2-[2-iodo-4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)

RN 774237-25-1 CAPLUS
CN Benzaldehyde, 4-(4-methyl-1-piperazinyl)-,
2-[2-iodo-4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)

RN 774237-31-9 CAPLUS
CN Hydrazinecarboxylic acid,
2-[(4-[(dimethylamino)methyl]phenyl]methylene]-1-
[4-(5-oxazolyl)phenyl]-, 1,1-dimethylethyl ester (CA INDEX NAME)



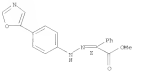
RN 774237-32-0 CAPLUS
CN Hydrazinecarboxylic acid,
2-[(4-[(dimethylamino)methyl]phenyl]methylene]-1-
[4-(4-iodo-5-oxazolyl)phenyl]-, 1,1-dimethylethyl ester (CA INDEX NAME)

RN 774237-30-8 CAPLUS
CN Benzaldehyde, 4-[(dimethylamino)methyl]-3-iodo-,
2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)

RN 774237-33-1 CAPLUS
CN Benzaldehyde, 4-[(dimethylamino)methyl]-,
2-[4-[4-iodo-5-oxazolyl]phenyl]hydrazone (CA INDEX NAME)

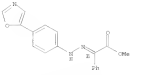
RN 774237-60-0 CAPLUS
CN Benzeneacetic acid, a-[2-[4-(5-oxazolyl)phenyl]hydrazinylidene]-,
methyl ester, (aE)- (CA INDEX NAME)

Double bond geometry as shown.

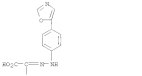


RN 774237-41-1 CAPLUS
CN Benzeneacetic acid, α-[2-[4-[5-oxazolyl]phenyl]hydrazinylidene]-, methyl ester, (αZ)- (CA INDEX NAME)

Double bond geometry as shown.



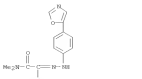
RN 774237-42-2 CAPLUS
CN Benzeneacetic acid, α-[2-[4-[5-oxazolyl]phenyl]hydrazinylidene]- (CA INDEX NAME)



RN 774237-43-3 CAPLUS
CN Benzeneacetamide, N,N-dimethyl-α-[2-[4-[5-oxazolyl]phenyl]hydrazinylidene]- (CA INDEX NAME)

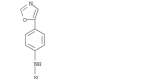
RN 774237-49-9 CAPLUS
CN Benzenesulfonamide, 4-[[2-[4-[5-oxazolyl]phenyl]hydrazinylidene]methyl]- (CA INDEX NAME)

RN 774237-50-2 CAPLUS
CN Methanesulfonamide, N-[4-[[2-[4-[5-oxazolyl]phenyl]hydrazinylidene]methyl]phenyl]- (CA INDEX NAME)

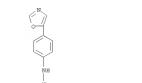


RN 774237-47-7 CAPLUS
CN Benzaldehyde, 4-fluoro-, 2-[4-[5-oxazolyl]phenyl]hydrazone (CA INDEX NAME)

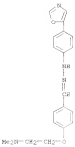
RN 774237-48-8 CAPLUS
CN Benzaldehyde, 4-amino-, 2-[4-[5-oxazolyl]phenyl]hydrazone (CA INDEX NAME)



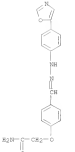
RN 774237-51-3 CAPLUS
CN Sulfamide, N,N-dimethyl-N'-[4-[[2-[4-[5-oxazolyl]phenyl]hydrazinylidene]methyl]phenyl]- (CA INDEX NAME)



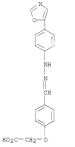
RN 774237-52-4 CAPLUS
CN Benzaldehyde, 4-[2-(dimethylamino)ethoxy]-, 2-[4-[5-oxazolyl]phenyl]hydrazone (CA INDEX NAME)



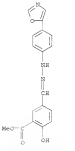
RN 774237-53-5 CAPLUS
CN Acetamide,
2-[4-[[2-[4-[5-oxazolyl]phenyl]hydrazinylidene]methyl]phenoxy]-
(CA INDEX NAME)



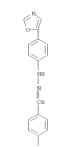
RN 774237-54-6 CAPLUS
CN Acetamide, N,N-dimethyl-2-[4-[[2-[4-[5-
oxazolyl]phenyl]hydrazinylidene]methyl]phenoxy]- (CA INDEX NAME)



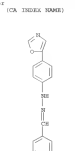
RN 774237-57-9 CAPLUS
CN Benzoic acid, 2-hydroxy-5-[[2-[4-[5-
oxazolyl]phenyl]hydrazinylidene]methyl]-, methyl ester (CA INDEX NAME)



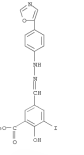
RN 774237-58-0 CAPLUS
CN Benzoic acid, 2-hydroxy-3-iodo-5-[[2-[4-[5-
oxazolyl]phenyl]hydrazinylidene]methyl]-, methyl ester (CA INDEX NAME)



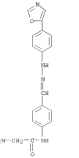
RN 774237-55-7 CAPLUS
CN Acetic acid, 2-[4-[[2-[4-[5-
oxazolyl]phenyl]hydrazinylidene]methyl]phenoxy]-, 1,1-dimethylethyl
ester
(CA INDEX NAME)



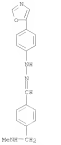
RN 774237-56-8 CAPLUS
CN Acetic acid, 2-[4-[[2-[4-[5-
oxazolyl]phenyl]hydrazinylidene]methyl]phenoxy]- (CA INDEX NAME)



RN 774237-59-1 CAPLUS
CN Acetamide, 2-(dimethylamino)-N-[4-[[2-[4-[5-
oxazolyl]phenyl]hydrazinylidene]methyl]phenyl]- (CA INDEX NAME)

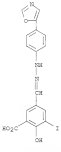


RN 774237-60-4 CAPLUS
CN Benzaldehyde, 4-[(methylamino)methyl]-,
2-[4-[5-oxazolyl]phenyl]hydrazone
(CA INDEX NAME)



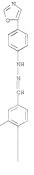
RN 774237-63-5 CAPLUS
CN Benzaldehyde, 3-iodo-4-[5-piperazinyl]-, 2-[4-[5-oxazolyl]phenyl]hydrazone (CA INDEX NAME)

PAGE 1-A



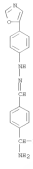
RN 774237-76-2 CAPLUS
CN Benzaldehyde, 4-[4-[dimethylamino)-3-piperidinyl]-3-iodo-, 2-[4-[5-oxazolyl]phenyl]hydrazone (CA INDEX NAME)

PAGE 1-A



PAGE 2-A

RN 774237-72-8 CAPLUS
CN Benzaldehyde, 4-[1-aminoethyl)-, 2-[4-[5-oxazolyl]phenyl]hydrazone (CA INDEX NAME)



RN 774237-73-9 CAPLUS
CN Benzoic acid, 2-hydroxy-3-iodo-5-[[2-[4-[5-oxazolyl]phenyl]hydrazinylidene]methyl]- (CA INDEX NAME)

PAGE 2-A

RN 774237-82-0 CAPLUS
CN Benzeneacetonitrile, α-[2-[4-[5-oxazolyl]phenyl]hydrazinylidene]- (CA INDEX NAME)

RN 774237-83-1 CAPLUS
CN Benzeneazoximidic acid, 2-[4-[5-oxazolyl]phenyl]hydrazide (CA INDEX NAME)

RN 774237-88-6 CAPLUS
CN Benzaldehyde, 4-[1-piperazinyl]-, 2-[3-iodo-4-[5-oxazolyl]phenyl]hydrazone (CA INDEX NAME)

PAGE 1-A

PAGE 2-A

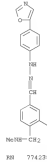
RN 774237-89-7 CAPLUS
CN Benzaldehyde, 4-[(methylamino)methyl]-,
2-(3-iodo-4-(5-oxazolyl)phenyl)hydrazone (CA INDEX NAME)

RN 774238-17-4 CAPLUS
CN Benzaldehyde, 4-iodo-3-[(methylamino)methyl]-,
2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)

RN 774238-18-5 CAPLUS
CN Benzaldehyde, 3-chloro-4-[(methylamino)methyl]-,
2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)

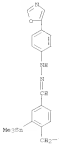
RN 774238-19-6 CAPLUS
CN Benzaldehyde, 3-fluoro-4-[(methylamino)methyl]-,
2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)

RN 774238-20-9 CAPLUS
CN Benzaldehyde, 4-[(methylamino)methyl]-3-(trimethylstannyl)-,
2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)



RN 774238-21-0 CAPLUS
CN 1H-Benzimidazole-6-carboxaldehyde, 2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)

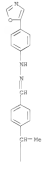
IT 774239-49-5
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of benzaldehyde or heterocycle carboxaldehyde hydrazone derivs. as inhibitors of agglutination and/or deposition of amyloid protein or amyloid-like protein)
RN 774239-49-5 CAPLUS
CN Acetamide, 2,2,2-trifluoro-N-methyl-N-[[4-[[2-[4-(5-oxazolyl)phenyl]hydrazinylidene]methyl]-2-(trimethylstannyl)phenyl]methyl]- (CA INDEX NAME)



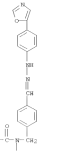
IT 774238-91-4P 774238-95-8P 774239-12-2P
774239-22-4P 774239-47-3P 774239-57-5P
774239-59-7P 774239-63-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of benzaldehyde or heterocycle carboxaldehyde hydrazone deriva.
as inhibitors of agglutination and/or deposition of amyloid protein or amyloid-like protein)

RN 774238-91-4 CAPLUS
CN Carbamic acid, methyl[[4-[[[4-[5-oxazolyl]phenyl]hydrazono]methyl]phenyl]methyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

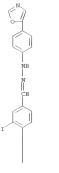
RN 774239-12-2 CAPLUS
CN Imidodicarbonic acid, 2-[1-[4-[[2-[4-[5-oxazolyl]phenyl]hydrazinylidene]methyl]phenyl]ethyl]-, 1,3-bis(1,1-dimethylethyl) ester (CA INDEX NAME)



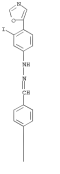
RN 774239-22-4 CAPLUS
CN 1-Piperazinecarboxylic acid, 4-[4-[[2-[3-iodo-4-[5-



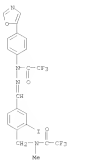
RN 774238-95-8 CAPLUS
CN 1-Piperazinecarboxylic acid, 4-[2-iodo-4-[[2-[4-[5-oxazolyl]phenyl]hydrazinylidene]methyl]phenyl]-, 1,1-dimethylethyl ester (CA INDEX NAME)



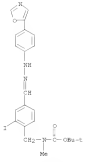
oxazolyl]phenyl]hydrazinylidene]methyl]phenyl]-, 1,1-dimethylethyl ester (CA INDEX NAME)



RN 774239-47-3 CAPLUS
CN Acetic acid, 2,2,2-trifluoro-, 2-[[3-iodo-4-[[methyl(2,2,2-trifluoroacetyl)amino]methyl]phenyl]methylene]-1-[4-[5-oxazolyl]phenyl]hydrazide (CA INDEX NAME)

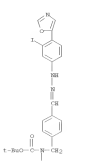


RN 774239-57-5 CAPLUS
CN Carbamic acid, [[2-iodo-4-[[[4-(5-oxazolyl)phenyl]hydrazono]methyl]phenyl]methyl]methyl-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

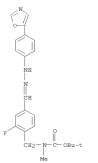


RN 774239-58-6 CAPLUS
CN Carbamic acid, [[4-[[[3-iodo-4-(5-oxazolyl)phenyl]hydrazono]methyl]phenyl]methyl]methyl-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

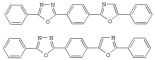


RN 774239-63-3 CAPLUS
CN Carbamic acid, [[2-fluoro-4-[[[4-(5-oxazolyl)phenyl]hydrazono]methyl]phenyl]methyl]methyl-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

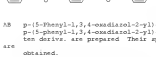


CM.CITING REF COUNT: 6 THERE ARE 6 CAPLUS RECORDS THAT CITE THIS RECORD (10 CITINGS)

ACCESSION NUMBER: 1990:406239 CAPLUS
DOCUMENT NUMBER: 113:6239
ORIGINAL REFERENCE NO.: 113:1211a,1214a
TITLE: Synthesis and spectroscopic characteristics of two heterocyclic pentadienes containing oxygen and nitrogen
AUTHOR(S): Pan, Jiaxing; Chen, Jingshan; Kao, Chenheng
CORPORATE SOURCE: Dep. Chem., Nankai Univ., Tianjin, Peop. Rep. China
SOURCE: Gaodeng Xuexiao Huaxue Xuebao (1989), 10(10), 1012-16
CODEN: HYHPDM; ISSN: 0251-0790
DOCUMENT TYPE: Journal
LANGUAGE: Chinese
GI



I

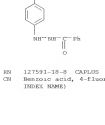


II

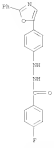
AB p-[5-Phenyl-1,3,4-oxadiazol-2-yl)-4-(5-phenyloxazol-2-yl)benzene (I) and p-[5-phenyl-1,3,4-oxadiazol-2-yl)-4-(2-phenyloxazol-5-yl)benzene (II) and tes derivs. are prepared. Their spectra and laser conversion efficiency are obtained.

IT 127591-17-7 127591-18-8 127591-19-9
127591-20-2 127591-21-3
RL: RCT (Reactant); RACT (Reactant or reagent)
(cyclization of, in presence of phosphoryl chloride)

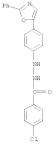
RN 127591-17-7 CAPLUS
CN Benzoic acid, 2-[4-[2-phenyl-5-oxazolyl]phenyl]hydrazide (CA INDEX NAME)



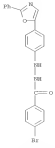
RN 127591-18-8 CAPLUS
CN Benzoic acid, 4-fluoro-, 2-[4-[2-phenyl-5-oxazolyl]phenyl]hydrazide (CA INDEX NAME)



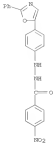
RN 127591-19-9 CAPLUS
CN Benzoic acid, 4-chloro-, 2-[4-(2-phenyl-5-oxazolyl)phenyl]hydrazide (CA INDEX NAME)



RN 127591-20-2 CAPLUS
CN Benzoic acid, 4-bromo-, 2-[4-(2-phenyl-5-oxazolyl)phenyl]hydrazide (CA INDEX NAME)



RN 127591-21-3 CAPLUS
CN Benzoic acid, 4-nitro-, 2-[4-(2-phenyl-5-oxazolyl)phenyl]hydrazide (CA INDEX NAME)



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=> fil reg
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                      ENTRY    SESSION
FULL ESTIMATED COST                                    22.04     235.04

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                      ENTRY    SESSION
CA SUBSCRIBER PRICE                                    -2.61      -2.61

FILE 'REGISTRY' ENTERED AT 11:28:33 ON 26 JUL 2011
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provided by InfoChem.

STRUCTURE FILE UPDATES:   25 JUL 2011  HIGHEST RN 1313702-17-8
DICTIONARY FILE UPDATES:  25 JUL 2011  HIGHEST RN 1313702-17-8

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TSCA INFORMATION NOW CURRENT THROUGH January 14, 2011.

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document.  For information
on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=>
Uploading C:\Users\randerson\Documents\STN Express 8.4\Queries\QUERIES\105514142.str
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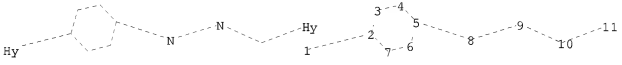


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chain nodes :
1  8  9  10  11
ring nodes :
2  3  4  5  6  7
chain bonds :
1-2  5-8  8-9  9-10  10-11
ring bonds :
2-3  2-7  3-4  4-5  5-6  6-7
exact/norm bonds :
1-2  2-3  2-7  3-4  4-5  5-6  5-8  6-7  8-9  9-10  10-11
```

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Match level :
1:Atom  2:Atom  3:Atom  4:Atom  5:Atom  6:Atom  7:Atom  8:CLASS  9:CLASS  10:CLASS
11:Atom



L9      STRUCTURE UPLOADED

=> d
L9 HAS NO ANSWERS
L9               STR
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Structure attributes must be viewed using STN Express query preparation.


=> s l9
SAMPLE SEARCH INITIATED 11:28:58 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -    41165 TO ITERATE

100.0% PROCESSED    41165 ITERATIONS                                10 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:       811167 TO   835433
PROJECTED ANSWERS:              11 TO      389

L10          10 SEA SSS SAM L9

=> s l9 full
FULL SEARCH INITIATED 11:29:02 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -   824992 TO ITERATE

100.0% PROCESSED   824992 ITERATIONS                              165 ANSWERS
SEARCH TIME: 00.00.07

L11         165 SEA SSS FUL L9

=> s l11 and caplus/lc
      75279646 CAPLUS/LC
L12         146 L11 AND CAPLUS/LC

=> s l11 not l12
L13          19 L11 NOT L12

=> d l13 1-19
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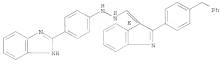
L13 ANSWER 1 OF 19 REGISTRY COPYRIGHT 2011 ACS on STN
RN 1049975-40-7 REGISTRY
ED Entered STN: 17 Sep 2008
CN 1H-Benzimidazole, 2-[4-[2-[(E)-[2-[4-(phenylmethyl)phenyl]-3H-indol-3-ylidene]methyl]hydrazinyl]phenyl]- (CA INDEX NAME)
FS STEREOSEARCH
MF C35 H27 N5
CI COM
SR CA

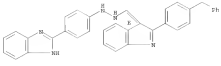
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

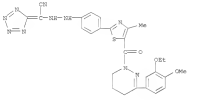
L13 ANSWER 2 OF 19 REGISTRY COPYRIGHT 2011 ACS on STN
RN 1049724-56-2 REGISTRY
ED Entered STN: 17 Sep 2008
CN 1H-Benzimidazole, 2-[4-[2-[(E)-[2-[4-(phenylmethyl)phenyl]-3H-indol-3-ylidene]methyl]hydrazinyl]phenyl]-, hydrochloride (1:1) (CA INDEX NAME)
FS STEREOSEARCH
MF C35 H27 N5 . Cl H
SR Other Sources
Database: Developmental Therapeutics Program (National Cancer Institute)
CRN (1049975-40-7)

Double bond geometry as shown.



● HCl

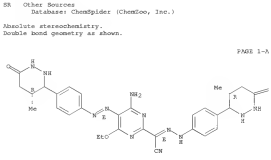
L13 ANSWER 3 OF 19 REGISTRY COPYRIGHT 2011 ACS on STN
RN 1027564-24-4 REGISTRY
ED Entered STN: 12 Jun 2009
CN INDEX NAME NOT YET ASSIGNED
MF C27 H24 N10 O3 S
SR Other Sources
Database: ChemSpider (ChemZoo, Inc.)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L13 ANSWER 4 OF 19 REGISTRY COPYRIGHT 2011 ACS on STN
RN 1026474-56-5 REGISTRY
ED Entered STN: 08 Jun 2008
CN 2-Pyrimidineacetonitrile, 4-amino-6-ethoxy-5-[(1E)-2-[4-[(4R)-hexahydro-4-methyl-6-oxo-3-pyridazinyl]phenyl]diazenyl]-a-[2-[4-[(4R)-hexahydro-4-methyl-6-oxo-3-pyridazinyl]phenyl]hydrazinylidene]-, (aE)- (CA INDEX NAME)
FS STEREOSEARCH
MF C30 H34 N12 O3
SR Other Sources
Database: ChemSpider (ChemZoo, Inc.)

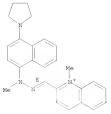
Absolute stereochemistry.
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

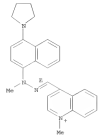
L13 ANSWER 5 OF 19 REGISTRY COPYRIGHT 2011 ACS on STN
RN 953999-74-3 REGISTRY
ED Entered STN: 27 Nov 2007
CN Quinolinium, 1-methyl-2-[(E)-[2-methyl-2-[4-(1-pyrrolidinyl)-1-naphthalenyl]hydrazinylidene]methyl]- (CA INDEX NAME)
FS STEREOSEARCH
MF C26 H27 N4
CI COM
SR CA

Double bond geometry as shown.

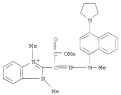


L13 ANSWER 6 OF 19 REGISTRY COPYRIGHT 2011 ACS on STN
RN 953999-64-1 REGISTRY
ED Entered STN: 27 Nov 2007
CN Quinolinium, 1-methyl-4-[(E)-[2-methyl-2-[4-(1-pyrrolidinyl)-1-naphthalenyl]hydrazinylidene]methyl]- (CA INDEX NAME)
FS STEREOSEARCH
MF C26 H27 N4
CI COM
SR CA

Double bond geometry as shown.

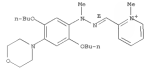


L13 ANSWER 7 OF 19 REGISTRY COPYRIGHT 2011 ACS on STN
RN 953004-70-3 REGISTRY
ED Entered STN: 20 Nov 2007
CN 1H-Benzimidazolium, 2-[2-methoxy-1-[2-methyl-2-[4-(1-pyrrolidinyl)-1-naphthalenyl]hydrazinylidene]-2-oxoethyl]-3,3-dimethyl- (CA INDEX NAME)
MF C27 H32 N5 O2
CI COM
SR CA

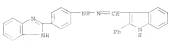


L13 ANSWER 8 OF 19 REGISTRY COPYRIGHT 2011 ACS on STN
RN 952585-74-9 REGISTRY
ED Entered STN: 07 Nov 2007
CN Pyridinium, 2-[(E)-[2,5-dibutoxy-4-(4-morpholinyl)phenyl]-2-methylhydrazinylidene]methyl]-1-methyl- (CA INDEX NAME)
FS STEREOSEARCH
MF C26 H39 N4 O3
CI COM
SR CA

Double bond geometry as shown.

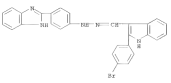


L13 ANSWER 9 OF 19 REGISTRY COPYRIGHT 2011 ACS on STN
RN 908088-61-9 REGISTRY
ED Entered STN: 21 Sep 2006
CN 1H-Indole-3-carboxaldehyde, 2-phenyl-,
2-[4-(1H-benzimidazol-2-yl)phenyl]hydrazone (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 1H-Indole-3-carboxaldehyde, 2-phenyl-,
[4-(1H-benzimidazol-2-yl)phenyl]hydrazone (9CI)
MF C28 H21 N5
SR Other Sources
Database: NCI 3D (National Cancer Institute)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L13 ANSWER 10 OF 19 REGISTRY COPYRIGHT 2011 ACS on STN
RN 908088-53-9 REGISTRY
ED Entered STN: 21 Sep 2006
CN 1H-Indole-3-carboxaldehyde, 2-[4-bromophenyl]-,
2-[4-(1H-benzimidazol-2-yl)phenyl]hydrazone (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 1H-Indole-3-carboxaldehyde, 2-[4-bromophenyl]-,
[4-(1H-benzimidazol-2-yl)phenyl]hydrazone (9CI)
MF C28 H20 Br N5
SR Other Sources
Database: NCI 3D (National Cancer Institute)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L13 ANSWER 11 OF 19 REGISTRY COPYRIGHT 2011 ACS on STN
RN 908071-39-0 REGISTRY
ED Entered STN: 21 Sep 2006
CN 1H-Indole-3-carboxaldehyde, 2-[4-(phenylmethyl)phenyl]-,
2-[4-(1H-benzimidazol-2-yl)phenyl]hydrazone (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 1H-Indole-3-carboxaldehyde, 2-[4-(phenylmethyl)phenyl]-,
[4-(1H-benzimidazol-2-yl)phenyl]hydrazone (9CI)
MF C35 H27 N5
SR Other Sources
Database: NCI 3D (National Cancer Institute)

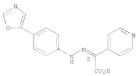
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L13 ANSWER 12 OF 19 REGISTRY COPYRIGHT 2011 ACS on STN
RN 845882-60-2 REGISTRY
ED Entered STN: 18 Mar 2005
CN 9H-Carbazole-3-carboxaldehyde, 9-methyl-,
2,2-bis[4-(1,3,5-trioxan-2-yl)phenyl]hydrazone (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 9H-Carbazole-3-carboxaldehyde, 9-methyl-,
bis[4-(1,3,5-trioxan-2-yl)phenyl]hydrazone (9CI)
MF C32 H29 N3 O6
CI COM
SR CA

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

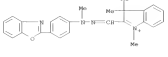
L13 ANSWER 13 OF 19 REGISTRY COPYRIGHT 2011 ACS on STN
RN 794492-66-3 REGISTRY
ED Entered STN: 08 Dec 2004
CN 4-Pyridineacetic acid, α-[[2-[4-[5-oxazolyl]phenyl]hydrazinylidene]-, (αZ)- (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 4-Pyridineacetic acid, α-[[4-[5-oxazolyl]phenyl]hydrazono]-, (αZ)- (9CI)
FS STEREOSEARCH
MF C16 H12 N4 O3
CI COM
SR CA

Double bond geometry as shown.

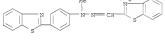


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

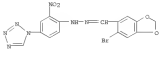
L13 ANSWER 14 OF 19 REGISTRY COPYRIGHT 2011 ACS on STN
RN 763024-73-3 REGISTRY
ED Entered STN: 15 Oct 2004
CN 3H-Indolium, 2-[[2-[4-[2-benzoxazolyl]phenyl]-2-methylhydrazinylidene]methyl]-3,3,5-trimethyl- (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 3H-Indolium, 2-[[4-[2-benzoxazolyl]phenyl]methylhydrazono]methyl]-1,3,3-trimethyl- (9CI)
MF C26 H25 N4 O
CI COM
SR CA



L13 ANSWER 15 OF 19 REGISTRY COPYRIGHT 2011 ACS on STN
RN 739340-82-0 REGISTRY
ED Entered STN: 05 Sep 2004
CN Benzothiazolium, 2-[[2-[4-[2-benzothiazolyl]phenyl]-2-methylhydrazinylidene]methyl]-3-methyl- (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Benzothiazolium, 2-[[4-[2-benzothiazolyl]phenyl]methylhydrazono]methyl]-3-methyl- (9CI)
MF C23 H19 N4 S2
CI COM
SR CA

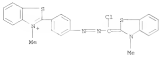


L13 ANSWER 16 OF 19 REGISTRY COPYRIGHT 2011 ACS on STN
RN 392704-61-9 REGISTRY
ED Entered STN: 15 Feb 2002
CN 1,3-Benzodioxole-5-carboxaldehyde, 6-bromo-, 2-[2-nitro-4-[1H-tetrazol-1-yl]phenyl]hydrazone (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 1,3-Benzodioxole-5-carboxaldehyde, 6-bromo-, [2-nitro-4-[1H-tetrazol-1-yl]phenyl]hydrazone (9CI)
MF C15 H10 Br N7 O4
SR Chemical Library
Supplier: labs7st
LC STN Files: CHEMCATS

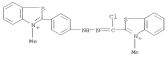


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L13 ANSWER 17 OF 19 REGISTRY COPYRIGHT 2011 ACS on STN
RN 47655-46-1 REGISTRY
ED Entered STN: 16 Nov 1984
CN Benzothiazolium, 2-[4-[2-[chloro[3-methyl-2(3H)-benzothiazolylidene]methyl]diazenyl]phenyl]-3-methyl- (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Benzothiazolium, 2-[4-[[chloro[3-methyl-2(3H)-benzothiazolylidene]methyl]azo]phenyl]-3-methyl- (9CI)
MF C23 H18 Cl N4 S2
CI COM



L13 ANSWER 18 OF 19 REGISTRY COPYRIGHT 2011 ACS on STN
RN 47655-55-0 REGISTRY
ED Entered STN: 16 Nov 1984
CN Benzothiazolium, 2-[4-[chloro[3-methylbenzothiazolium-2-yl]methylene]hydrazino]phenyl]-3-methyl- (9CI) (CA INDEX NAME)
MF C23 H19 Cl N4 S2
CI COM



L13 ANSWER 19 OF 19 REGISTRY COPYRIGHT 2011 ACS on STN
RN 47631-66-3 REGISTRY
ED Entered STN: 16 Nov 1984
CN Benzothiazolium, 3-methyl-2-[4-[2-[(3-methyl-2(3H)-benzothiazolylidene)methyl]diazenyl]phenyl]- (CA INDEX NAME)
OTHER CA INDEX NAMES:
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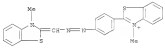
MF C23 H19 N4 S2
CI COM



=> fil caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	243.92	478.96

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-2.61

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FILE COVERS 1907 - 26 Jul 2011 VOL 155 ISS 5
FILE LAST UPDATED: 25 Jul 2011 (20110725/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Jun 2011
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Jun 2011

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     FILE 'REGISTRY' ENTERED AT 11:28:33 ON 26 JUL 2011
L9                STRUCTURE UPLOADED
L10                10 S L9
L11               165 S L9 FULL
L12               146 S L11 AND CAPLUS/LC
L13                19 S L11 NOT L12

     FILE 'CAPLUS' ENTERED AT 11:29:44 ON 26 JUL 2011

=> s l12
L14               35 L12

=> d ibib abs hitstr 1-35
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L14 ANSWER 1 OF 35 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2007:1390731 CAPLUS
DOCUMENT NUMBER: 148:158904
TITLE: Orally administered amyloidophilic compounds is effective in prolonging the incubation periods of scrunels cerebrally infected with prion diseases in a prion strain-dependent manner
AUTHOR(S): Kawasaki, Yuri; Kasepoe, Keiichi; Chen, Chun-jen; Tenya, Kenta; Sakasegawa, Yuji; Doh-ura, Katsumi
CORPORATE SOURCE: Department of Prion Research, Tohoku University Graduate School of Medicine, Sendai, Japan
SOURCE: Journal of Virology (2007), 81(23), 12889-12898 CODEN: JOVIAM; ISSN: 0022-538X
PUBLISHER: American Society for Microbiology
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The establishment of effective therapeutic interventions for prion diseases is necessary. We report on a newly developed amyloidophilic compound that displays therapeutic efficacy when administered orally. This compound inhibited abnormal prion protein formation in prion-infected neuroblastoma cells in a prion strain-dependent manner effectively for RML prion and marginally for 22L prion and Fukuoka-1 prion. When the high-at dose (0.1% [wt/wt] in feed) was given orally to cerebrally RML prion-inoculated mice from inoculation until the terminal stage of disease, it extended the incubation periods by 2.3 times compared to the control. The compound exerted therapeutic efficacy in a prion strain-dependent manner such as that observed in the cell culture study: neat effective for RML prion, less effective for 22L prion or Fukuoka-1 prion, and marginally effective for 263K prion. Its effectiveness depended on an earlier start of administration. The glycoform pattern of the abnormal prion protein in the treated mice was modified and showed predominance of the diglycosylated form, which resembled that of 263K prion, suggesting that diglycosylated forms of abnormal prion protein might be least sensitive or resistant to the compound. The mechanism of the prion strain-dependent effectiveness needs to be elucidated and managed. Nevertheless, the identification of an orally available amyloidophilic chemical encourages the pursuit of chemotherapy for prion diseases.
IT 774236-55-4 774237-91-1 774237-93-3
RL: PAC (Pharmacological activity); PKT (Pharmacokinetics); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(orally administered amyloidophilic compds. are effective in prolonging the incubation periods of animals cerebrally infected with prion diseases in a prion strain-dependent manner)
RN 774236-55-4 CAPLUS
CN 4-Pyridinecarboxaldehyde, 2-[4-[5-oxazolyl]phenyl]hydrazone (CA INDEX NAME)

L14 ANSWER 1 OF 35 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)

RN 774237-91-1 CAPLUS
CN 4-Pyridinecarboxaldehyde, 2-[4-(4-chloroimidazo[1,2-a]pyridin-2-yl)phenyl]hydrazone (CA INDEX NAME)

RN 774237-93-3 CAPLUS
CN 4-Pyridinecarboxaldehyde, 2-[4-imidazo[1,2-b]thiazol-6-ylphenyl)hydrazone (CA INDEX NAME)

OS.CITING REF COUNT: 15 THERE ARE 15 CAPLUS RECORDS THAT CITE THIS RECORD (15 CITINGS)
REFERENCE COUNT: 32 THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 2 OF 35 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2007:1275572 CAPLUS
DOCUMENT NUMBER: 147:508062
TITLE: Specific monocationic monochromophoric compounds of hydrazone type comprising a 2-, 4-pyridinium or 2-, 4-quinolinium unit, synthesis thereof, dye compositions containing them, and method for dyeing keratin fibers
INVENTOR(S): David, Harvey Norquet, Nadege; Greaves, Andrew
PATENT ASSIGNEE(S): L'Oreal, Fr.
SOURCE: PCT Int. Appl., 92pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007125238	A1	20071108	WO 2007-FR51111	20070413
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
FR 2893897	A1	20070525	FR 2006-3322	20060413
FR 2893897	B1	20080627		
EP 2010494	A1	20090107	EP 2007-788847	20070413
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW				
US 20080300258	A1	20081204	US 2009-296721	20090713
PRIORITY APPLN. INFO.:			FR 2006-3322	A 20060413
			US 2006-7965369	P 20060502
			WO 2007-FR51111	W 20070413

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): MARPAT 147:508062

L14 ANSWER 2 OF 35 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)
AB Monocationic monochromophoric compds. having hydrazone groups attached to pyridinium or quinolinium rings at the 2 or 4 position and aromatic groups attached to the other N of the hydrazone group are manufactured for oxidative coloring of hair shades that are resistance to shampooing and alkaline lightening. A typical compound (I) was manufactured by treating Me2SO4 with 2-(methoxycarbonylmethyl)pyridine in CHCl2 overnight, removal of the CHCl2, treatment of the reaction mixture with NaOH, reaction of the intermediate with 2,5-dibutoxy-4-(4-morpholinyl)benzenediazonium tetrafluoroborate in aqueous MeOH at 0° for 3 h, treatment of the 2nd intermediate with aqueous MeOH and NaOH at 40° for 3 h, and reaction of the 3rd intermediate with Me2SO4 in CHCl2 in the presence of K2CO3.
IT 952585-75-0P 955999-65-2P 955999-75-4P
RL: COS (Cosmetic use); IMF (Industrial manufacture); BIOL (Biological study); PREP (Preparation); USES (Uses)
(hydrazone-type monocationic monochromophoric compds. having pyridinium or quinolinium units for oxidative coloring of hair shades resistant to shampooing and lightening)
RN 952585-75-0 CAPLUS
CN Pyridinium, 2-[(E)-[2-[2,5-dibutoxy-4-(4-morpholinyl)phenyl]-2-methylhydrazinylidene]methyl]-1-methyl-, methyl sulfate (1:1) (CA INDEX NAME)

CM 1

CRN 952585-74-9
CMF C26 H39 N4 O3

Double bond geometry as shown.

CM 2

CRN 21228-90-0
CMF C H3 O4 S

Me--O-SO3-

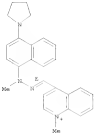
RN 955999-65-2 CAPLUS
CN Quinolinium, 1-methyl-4-[(E)-[2-methyl-2-[4-(1-pyrrolidinyl)-1-naphthalenyl]hydrazinylidene]methyl]-, methyl sulfate (1:1) (CA INDEX

NAME)

CM 1

CRN 955999-64-1
CMF C26 H27 N4

Double bond geometry as shown.



CM 2

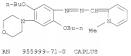
CRN 21228-90-0
CMF C H3 O4 S

RN 955999-75-4 CAPLUS
CN Quinolinium, 1-methyl-2-[(E)-[2-methyl-2-[4-(1-pyrrolidinyl)-1-naphthalenyl]hydrazinylidene]methyl]-, methyl sulfate (1:1) (CA INDEX NAME)

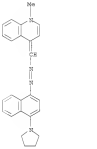
CM 1

CRN 955999-74-3
CMF C26 H27 N4

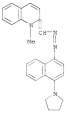
Double bond geometry as shown.

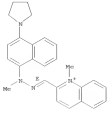


RN 955999-71-0 CAPLUS
CN Quinoline, 1,4-dihydro-1-methyl-4-[[2-[4-(1-pyrrolidinyl)-1-naphthalenyl]diazenyl]methylene]- (CA INDEX NAME)



RN 955999-78-7 CAPLUS
CN Quinoline, 1,2-dihydro-1-methyl-2-[[2-[4-(1-pyrrolidinyl)-1-naphthalenyl]diazenyl]methylene]- (CA INDEX NAME)





CM 2

CRN 21228-90-0
CMF C H3 O4 S

IT 952585-76-1P 952585-77-2P 955999-71-0P
955999-78-7P
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT
(Reactant or reagent)
(precursor; hydrazone-type monocationic monochromophoric compds. having
pyridinium or quinolinium units for oxidative coloring of hair shades resistant to shampooing and lightening)

RN 952585-76-1 CAPLUS
CN Acetic acid, 2-[2-[2,5-dibutoxy-4-(4-morpholinyl)phenyl]diazenyl]-2-(1-methyl-2(1H)-pyridinylidene)-, methyl ester (CA INDEX NAME)

RN 952585-77-2 CAPLUS
CN Morpholine, 4-[2,5-dibutoxy-4-[2-[(3-methyl-2(1H)-pyridinylidene)methyl]diazenyl]phenyl]- (CA INDEX NAME)

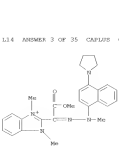
REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 3 OF 35 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2007:1237494 CAPLUS
DOCUMENT NUMBER: 147:508054
TITLE: Preparation of monocationic monochromophoric hydrazones containing a 2-benzimidazolium unit for hair dyes
INVENTOR(S): David, Herve; Baril, Berangere; Greaves, Andrew
PATENT ASSIGNEE(S): L'Oreal, Fr.
SOURCE: PCT Int. Appl., 67pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007122341	A2	20071101	WO 2007-FR51112	20070413
WO 2007122341	A3	20090205		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW			
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
EP 2010644	A1	20090107	EP 2007-788947	20070413
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, MK, RS				
US 20090300858	A1	20091210	US 2009-296721	20090713
PRIORITY APPLN. INFO.:			FR 2006-3322	A 20060413
			US 2006-796536P	P 20060502
			WO 2007-FR51111	W 20070413

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): MARPAT 147:474295
GI



AB The present invention relates to the synthesis of title compds. The present invention further relates to dyeing compos. comprising the compds.
as direct dyes, and to a method of dyeing hair fibers by using the compns., and a multi-compartment device. Thus, a title compound at pH7 in a
composition gave a yellow color to the hair.
IT 915094-71-4P
RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of monocationic monochromophoric hydrazones containing benzimidazolium unit for hair dyes)
RN 915094-71-4 CAPLUS
CN 1H-Benzimidazolium, 2-[2-methoxy-3-[2-methyl-2-[4-(1-pyrrolidinyl)-1-naphthalenyl]hydrazinylidene]-2-oxoethyl]-1,3-dimethyl-, methyl sulfate (1:1) (CA INDEX NAMES)

CM 1

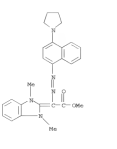
CRN 915094-70-3
CMF C27 H33 N5 O2

L14 ANSWER 3 OF 35 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)

CM 2

CRN 21228-90-0
CMF C H3 O4 S

IT 915094-69-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of monocationic monochromophoric hydrazones containing benzimidazolium unit for hair dyes)
RN 915094-69-0 CAPLUS
CN Acetic acid, 2-(1,3-dihydro-1,3-dimethyl-2H-benzimidazol-2-ylidene)-2-[2-[4-(1-pyrrolidinyl)-1-naphthalenyl]diazenyl]-, methyl ester (CA INDEX NAMES)

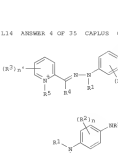


L14 ANSWER 4 OF 35 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2007:1179681 CAPLUS
DOCUMENT NUMBER: 147:474295
TITLE: Particulate monocationic monochromophoric compounds of
the hydrazone type comprising a 4-pyridinium or 2,4-quinolinium group, their synthesis, hair dye compositions comprising them, and process for dyeing keratin fibers
INVENTOR(S): David, Herve; Murguet, Nadege; Greaves, Andrew
PATENT ASSIGNEE(S): L'Oreal, Fr.
SOURCE: Fr. Demande, 81pp.
CODEN: FRXXBL
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2899937	A1	20071019	FR 2006-3322	20060413
FR 2899937	B1	20080627		
WO 2007125238	A2	20071101	WO 2007-FR51109	20070413
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW			
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
EP 2010644	A1	20090107	EP 2007-788947	20070413
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, MK, RS				
US 20090300858	A1	20091210	US 2009-296721	20090713
PRIORITY APPLN. INFO.:			FR 2006-3322	A 20060413
			US 2006-796536P	P 20060502
			WO 2007-FR51111	W 20070413

L14 ANSWER 4 OF 35 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)



AB Monochromophoric monocationic compds. I and/or II in which R1 represents a
hydrogen, an alkyl radical, Ph, benzyl, alkylsarbonyl, alkylsulfonyl, aminosulfonyl, aminocarbonyl; R5, represents an alkyl radical, Ph, benzyl;
R2 and R3, represents a halogen, an alkyl radical, arylooxy, arylamino, hydroxyl, alkoxy, (poly)hydroxyalkoxy, alkoxyaroxyl, alkylcarbonyloxy, amino, alkylcarbonylamino, aminocarbonyl, ureido, aminosulfonyl, alkylthio, alkylsulfonylamino, cyano, trifluoromethyl, thio, alkylsulfonyl, alkylsulfonyl; R4 represents a hydrogen, an alkyl radical, amino, alkylcarbonylamino, ureido, alkylsulfonylamino, hydroxyaroxyl, alkoxyaroxyl, cyano, Ph, benzyl; R6 and R7, represent a hydrogen, an alkyl radical, alkylcarbonyl, alkoxyaroxyl, alkoxyaryl, aminocarbonyl, alkylsulfonyl, n is between 0 and 4, n' is not between 0 and 4, the electroneutrality of compound of formula I being ensured by
one
or more An cosmetically acceptable anions are prepared and used as hair dye.
Thus,
2-((E)-[4-[(4-methoxyphenyl)]amino]phenyl](methyl)hydrazono]ethyl]-1-methylpyridinium methosulfate (III) was prepared by the reaction of 2-((E)-[[4-[(4-methoxyphenyl)amino]phenyl](methyl)hydrazono]ethyl)-1-methylpyridinium (preparation given) with di-Me sulfate. Formulation of a dye
containing 5 × 10-3 III is disclosed.
IT 952585-75-0P
RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(particulate monocationic monochromophoric compds. of hydrazone type comprising 4-pyridinium or 2,4-quinolinium group, their synthesis, hair

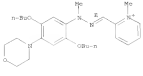
L14 ANSWER 4 OF 35 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)
dye compns. comprising them, and process for dyeing keratin fibers)

RN 952585-76-4 CAPLUS
CN Pyridinium, 2-[(E)-[2-[2,5-dibutoxy-4-(4-morpholinyl)phenyl]-2-methylhydrazinylidene]methyl]-1-methyl-, methyl sulfate (1:1) (CA INDEX NAME)

CM 1

CRN 952585-76-9
CMF C26 H39 N4 O3

Double bond geometry as shown.

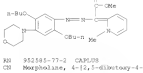


CM 2

CRN 21228-90-0
CMF C H3 O4 S

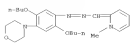
IT 952585-76-1P 952585-77-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(particulate monocationic monochromophoric compds. of hydrazone type comprising 4-pyridinium or 2,4-quinolinium group, their synthesis, hair
dye compns. comprising them, and process for dyeing keratin fibers)

RN 952585-76-1 CAPLUS
CN Acetic acid, 2-[2-[2,5-dibutoxy-4-(4-morpholinyl)phenyl]diazenyl]-2-(1-methyl-2(1H)-pyridinylidene)-, methyl ester (CA INDEX NAME)



RN 952585-77-2 CAPLUS
CN Morpholine, 4-[2,5-dibutoxy-4-[2-[(3-methyl-2(3H)-

L14 ANSWER 4 OF 35 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)
pyridinylidene)methyl]diazenyl]phenyl]- (CA INDEX NAME)

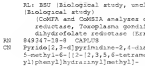


REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 5 OF 35 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2006:317931 CAPLUS
DOCUMENT NUMBER: 144:427860
TITLE: CoMTA and CoMSIA analyses of Pneumocystis carinii dihydrofolate reductase, Toxoplasma gondii dihydrofolate reductase, and rat liver dihydrofolate reductase. 1Erratum to document cited in
CA142:369701]
AUTHOR(S): Gangjee, Aleem; Lin, Xin
CORPORATE SOURCE: Division of Medicinal Chemistry, Graduate School of Pharmaceutical Sciences, Duquesne University, Pittsburgh, PA, 15282, USA
SOURCE: Journal of Medicinal Chemistry (2006), 49(9), 2850
CODEN: JMCMAR; ISSN: 0022-2623
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
AB On page 1451, in Table 1, the reference entry for compds. 105-114 should be 48
instead of 49. The reference entry for compds. 119-123 should be 49 instead of
50. The R1 and R2 entries for compound 113 should both be H instead of CH3
and 4'-C1C6H4 and the R2 entry for compound 116 should be 3'-OCH2OCH3 instead
of 2'-OCH2CH4. The entries for compds. 117 and 118 are missing and should be inserted between compds. 116 and 119 as given. On page 1452, in
Table 1, the structure for compound 126 is incorrect; the corrected structure is
given. Compds. 135 and 149 are duplicate entries. Since all the training
sets used to develop the models only included either 135 or 149, the models are not affected. The other duplicate entry in all the test sets should be accordingly removed. On page 1455, in Table 2, last row, the correct predictive r2 information for po, tg, and r1 is given.

IT 849347-28-8P
RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)
(CoMFA and CoMSIA analyses of Pneumocystis carinii dihydrofolate reductase, Toxoplasma gondii dihydrofolate reductase, and rat liver dihydrofolate reductase (Erratum))

RN 849347-28-8 CAPLUS
CN Pyrido[2,3-d]pyrimidine-2,4-diamine, 5-methyl-6-[(2-[2,3,5,6-tetramethyl-4-(1H-pyrrol-1-yl)phenyl]hydrazinyl)methyl]- (CA INDEX NAME)



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD

L14 ANSWER 5 OF 35 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)
(1 CITING)

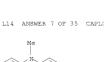
L14 ANSWER 6 OF 35 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2006:189333 CAPLUS
DOCUMENT NUMBER: 146:228672
TITLE: Product subclass 4: 1-nitrogen-functionalized 1-haloalk-1-enes
AUTHOR(S): Schantl, J. G.
CORPORATE SOURCE: Germany
SOURCE: Science of Synthesis (2006), Volume Date 2005, 24, 223-284
CODEN: SSCYPS
PUBLISHER: Georg Thieme Verlag
DOCUMENT TYPE: Journal; General Review
LANGUAGE: English
AB A review of methods to prepare 1-nitrogen-functionalized 1-haloalk-1-enes.
IT 34239-27-5P
RL: SPN (Synthetic preparation); PREP (Preparation)
(review preparation of nitrogen functionalized haloalkenes)
RN 34239-27-5 CAPLUS
CN Benzothiazolium, 2-[4-[2-(chloro[3-methyl-2(3H)-benzothiazolylidene]methyl]diazenyl]phenyl]-3-methyl-, perchlorate (1:1) (CA INDEX NAME)

CN 1

CN 47655-56-1
CNF C23 H15 Cl N4 S2

CM 2

CN 14797-73-0
CNF Cl O4



REFERENCE COUNT: 154 THERE ARE 154 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 7 OF 35 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2003:212578 CAPLUS
DOCUMENT NUMBER: 142:269164
TITLE: Electrophotographic photoreceptors having excellent mechanical strength and electric properties
INVENTOR(S): Sasaki, Atsuhi; Kikuchi, Norihiro
PATENT ASSIGNEE(S): Canon Inc., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 22 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

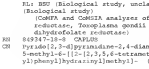
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003062391	A	20030305	JP 2003-289711	20030808
PRIORITY APPLN. INFO.:			JP 2003-289711	20030808

OTHER SOURCE(S): MARPAT 142:269164
AB The photoreceptors have photoconductive surface layers containing chain-polymerized and -nonpolymerizable the 1st and the 2nd charge-transporting compds. A and B at A/B (weight) 100:(5.0-45.0). The 1st charge-transporting compds. may be F1aA(EF2d)b (A = charge-transporting groups; F1, F2 = chain-polymerizable functional groups; a, b, d = 0, 2); a + b + d = 2). The 2nd charge transporting compds. may be triarylamines. The photoreceptors exhibit low ghost level initially and after prescribed durability test and excellent scratch resistance.
IT 845882-41-3P
RL: DEV (Device component use); PNU (Industrial manufacture); PREP (Preparation); USES (Uses)
(outermost layers, charge transporting materials; electrophotog. photoreceptors having cured charge-transporting outermost layers with good scratch resistance)
RN 845882-41-3 CAPLUS
CN 9H-Carbazole-3-carboxaldehyde, 9-methyl-, bis[4-(1,7,7-trimeth-2-ylidenyl)hydrazone, homopolymer (9CI) (CA INDEX NAME)

CN 1

CNN 845882-40-2
CNF C32 H29 N3 O6

L14 ANSWER 8 OF 35 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2005:128347 CAPLUS
DOCUMENT NUMBER: 142:369701
TITLE: CoMFA and CoMSIA analyses of Pneumocystis carinii dihydrofolate reductase, Toxoplasma gondii dihydrofolate reductase, and rat liver dihydrofolate reductase
AUTHOR(S): Gangjee, Aleem; Lin, Xin
CORPORATE SOURCE: Division of Medicinal Chemistry, Graduate School of Pharmaceutical Sciences, Duquesne University, Pittsburgh, PA, 15282, USA
SOURCE: Journal of Medicinal Chemistry (2005), 48(5), 1448-1469
CODEN: JMCMAR; ISSN: 0022-2623
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
AB In a continuing effort to develop potent and selective dihydrofolate reductase (DHFR) inhibitors against opportunistic pathogens, we developed three-dimensional quant. structure-activity relationship (3D QSAR) models for the inhibitory activity against Pneumocystis carinii (pc) DHFR, Toxoplasma gondii (tg) DHFR, and rat liver DHFR, using a data set of 179 structurally diverse compds. To ensure a balanced distribution of more potent and less potent drugs in the training set, three different 90-compound training sets taken from the main data set were used, one for each enzyme, while the remaining 89 compds. in the main data set in each case were used as the test set. Three methods, namely, conventional CoMFA, all orientation search (AOS) CoMFA, and CoMSIA were applied to the training sets. While the AOS CoMFA models gave the best internal predictions (cross-validated r2 values from the training sets), which are satisfactory, CoMSIA models gave the best external predictive r2 values from the test sets). Both AOS CoMFA and CoMSIA analyses were used to construct stdev*coefficient contour maps which can be used to design new compds. in an interactive fashion.
IT 849347-38-8
RL: BSU (Biological study, unclassified); PYP (Properties); BIOL (Biological study)
(CoMFA and CoMSIA analyses of Pneumocystis carinii dihydrofolate reductase, Toxoplasma gondii dihydrofolate reductase, and rat liver dihydrofolate reductase)
RN 849347-38-8 CAPLUS
CN Pyrido[2,3-d]pyrimidine-2,4-diamine, 5-methyl-6-[[2-[2,3,5,6-tetramethyl-4-(1H-pyrrol-1-yl)phenyl]hydrazinyl]methyl]- (CA INDEX NAME)



OS.CITING REF COUNT: 13 THERE ARE 13 CAPLUS RECORDS THAT CITE THIS RECORD (13 CITINGS)

L14 ANSWER 9 OF 35 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2004:857547 CAPLUS
DOCUMENT NUMBER: 141:350174
TITLE: Preparation of benzaldehyde or heterocycle carboxaldehyde hydrazone derivatives as inhibitors of agglutination and/or deposition of an amyloid protein or amyloid-like protein
INVENTOR(S): Kawague, Keiichi; Motoki, Kayoko; Odagiri, Takashi; Suzuki, Nobuyuki; Chen, Chun-Jen; Mimura, Tetsuya
PATENT ASSIGNEE(S): Daiichi Pharmaceutical Co., Ltd., Japan
SOURCE: PCT Int. Appl., 236 pp.
CODEN: PIXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

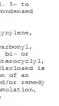
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004087641	A1	20041014	WO 2004-JP4697	20040331
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2521056	A1	20041014	CA 2004-2521056	20040331
EP 1612204	A1	20060104	EP 2004-724753	20040331
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK				
US 20060176433	A1	20061207	US 2005-551414	20050930
PRIORITY APPLN. INFO.:			JP 2003-94357	A 20030331
			WO 2004-JP4697	W 20040331

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSSS DISPLAY FORMAT
OTHER SOURCE(S): MARPAT 141:350174
GI

AB Compds. represented by the general formula (I), salts thereof, or solvates
of either[R1, R2 = H, alkyl, alkenyl, alkynyl, aralkyl, NR2, alkylamino, cyano, halo, haloalkyl, haloalkenyl, haloalkynyl, CO2R, alkoxycarbonyl, CONR2, N-alkylcarbamoyl, N,N-dialkylcarbamoyl, N-hydroxyalkylcarbamoyl, each (un)substituted aryl, (un)saturated 5- to 7-membered heterocyclyl,

(un)satd. bi- or tricyclic condensed heterocyclyl, arylalkenyl, (un)satd. heterocyclylalkenyl, or (un)satd. bi- or tricyclic condensed heterocyclylalkenyl;R3 = H, (un)substituted alkyl, acyl, alkoxycarbonyl, Ar - a divalent group derived from arom. hydrocarbon, (un)satd. 5- to 7-membered heterocyclic group, or (un)satd. bi- or tricyclic condensed heterocyclic group; X = a single bond, a single bond, each (un)substituted
linear or branched C1-3 alkylene, C1-3 alkenylene, or C1-3 alkynylene, CO;
G = halo, haloalkyl, haloalkenyl, haloalkynyl, alkoxy, alkoxycarbonyl, N-alkylamino, N,N-dialkylamino, each (un)substituted (un)satd. bi- or tricyclic condensed hydrocarbyl, (un)satd. 5- to 7-membered heterocyclyl, or (un)satd. bi- or tricyclic heterocyclyl] are prepd. Also disclosed is (1) an agent for inhibiting the agglutination and/or deposition of an amyloid protein or amyloid-like protein or (2) a preventive and/or remedy for conformational diseases or diseases caused by amyloid accumulation, which contains the compd. I, its salt, or solvate thereof. In particular,
disclosed is a preventive and/or remedy for Alzheimer's disease, Down's syndrome, Creutzfeldt-Jakob disease, type II diabetes, dialysis amyloidosis, AA amyloidosis, Gerstmann-Straussler-Scheinker (GSS) syndrome, Nuckle-Wells syndrome, localized atrial amyloidosis, thyroid medullary carcinoma, skin amyloidosis, localized tuberous amyloidosis, AL amyloidosis, AH amyloidosis, familial Mediterranean fever, Parkinson's disease, tauopathy, ALS, or CAG repeat disease. A radiodiagnostic agent contg. radionuclide-labeled, in particular radioactive iodine-labeled compd. I is also disclosed. Thus, 1.0 g 4-(oxazol-5-yl)phenylhydrazine and 2.61 g 6-pyridinecarboxaldehyde were heated in ethanol at reflux overnight to give, after recrystn. from ethanol, 1.03 g 4-pyridinecarbonaldehyde 4-(4-(oxazol-5-yl)phenyl)hydrazone (II). II inhibited the formation of amyloid from amyloid β protein with IC50 of 1.94 μM vs. 0.87 and 3.23 μM for Congo Red and 2-(2,3-dihydroxypropen-2-yl)-6-diethylaminonaphthalene (DDNP), resp.
IT 774236-53-4P 774237-38-6P
RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(preparation of benzaldehyde or heterocycle carboxaldehyde hydrazone derivs. as inhibitors of agglutination and/or deposition of amyloid protein or amyloid-like protein)
RN 774236-53-4 CAPLUS
CN 4-Pyridinecarboxaldehyde, 2-[4-[5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)

RN 774237-38-6 CAPLUS
CN 4-Pyridinecarboxaldehyde, 2-(4-(6-iodoindazo[1,2-a]pyridin-2-yl)phenyl)hydrazone (CA INDEX NAME)



IT 774236-53-2P 774236-54-3P 774236-56-5P
774236-57-6P 774236-58-7P 774236-59-8P
774236-60-1P 774236-63-4P 774236-64-5P
774236-65-6P 774236-66-7P 774236-67-8P
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774237-69-3P 774237-70-6P 774237-71-7P
774237-74-0P 774237-75-1P 774237-77-3P
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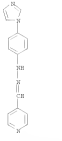
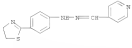
774237-93-3P 774237-94-4P 774237-95-5P
774237-96-6P 774237-97-7P 774237-99-9P
774238-00-3P 774238-09-4P 774238-10-7P

774238-11-8P 774238-21-0P 774238-29-8P
774238-30-1P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of benzaldehyde or heterocycle carboxaldehyde hydrazone derivs. as inhibitors of agglutination and/or deposition of amyloid protein or amyloid-like protein)

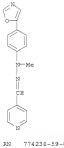
RN 774236-53-2 CAPLUS
CN 4-Pyridinecarboxaldehyde, 2-[4-(1H-imidazol-1-yl)phenyl]hydrazone (CA INDEX NAME)



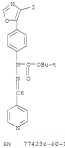
RN 774236-54-3 CAPLUS
CN 4-Pyridinecarboxaldehyde, 2-[4-(4,5-dihydro-2-thiazolyl)phenyl]hydrazone (CA INDEX NAME)



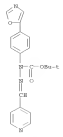
RN 774236-56-5 CAPLUS
CN Hydrazinecarboxylic acid, 1-[4-(5-oxazolyl)phenyl]-2-[(4-pyridinylmethylene)-, 1,1-dimethylethyl ester (CA INDEX NAME)



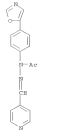
RN 774236-59-8 CAPLUS
CN Hydrazinecarboxylic acid, 1-[4-(4-iodo-5-oxazolyl)phenyl]-2-[(4-pyridinylmethylene)-, 1,1-dimethylethyl ester (CA INDEX NAME)



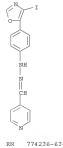
RN 774236-60-1 CAPLUS
CN 4-Pyridinecarboxaldehyde, 2-[4-(4-iodo-5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)



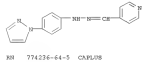
RN 774236-57-6 CAPLUS
CN Acetic acid, 1-[4-(5-oxazolyl)phenyl]-2-(4-pyridinylmethylene)hydrazide (CA INDEX NAME)



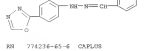
RN 774236-58-7 CAPLUS
CN 4-Pyridinecarboxaldehyde, 2-methyl-2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)



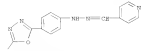
RN 774236-63-4 CAPLUS
CN 4-Pyridinecarboxaldehyde, 2-[4-(1H-pyrazol-1-yl)phenyl]hydrazone (CA INDEX NAME)



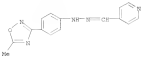
RN 774236-64-5 CAPLUS
CN 4-Pyridinecarboxaldehyde, 2-[4-(1,3,4-oxadiazol-2-yl)phenyl]hydrazone (CA INDEX NAME)



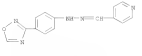
RN 774236-65-6 CAPLUS
CN 4-Pyridinecarboxaldehyde, 2-[4-(5-methyl-1,3,4-oxadiazol-2-yl)phenyl]hydrazone (CA INDEX NAME)



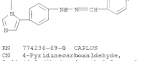
RN 774236-66-7 CAPLUS
CN 4-Pyridinecarboxaldehyde, 2-[4-(5-methyl-1,2,4-oxadiazol-3-yl)phenyl]hydrazone (CA INDEX NAME)



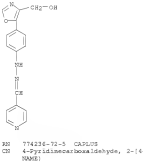
RN 774236-67-8 CAPLUS
CN 4-Pyridinecarboxaldehyde, 2-[4-(1,2,4-oxadiazol-3-yl)phenyl]hydrazone (CA INDEX NAME)



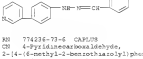
RN 774236-68-9 CAPLUS
CN 4-Pyridinecarboxaldehyde, 2-[4-(1-methyl-1H-imidazol-5-yl)phenyl]hydrazone (CA INDEX NAME)



RN 774236-69-0 CAPLUS
CN 4-Pyridinecarboxaldehyde, 2-[4-(4,5-dihydro-4-methyl-5-oxo-1,2,4-oxadiazol-3-yl)phenyl]hydrazone (CA INDEX NAME)

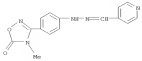


RN 774236-72-5 CAPLUS
CN 4-Pyridinecarboxaldehyde, 2-[4-(3-pyridinyl)phenyl]hydrazone (CA INDEX NAME)

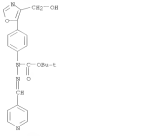


RN 774236-73-6 CAPLUS
CN 4-Pyridinecarboxaldehyde, 2-[4-(6-methyl-2-benzothiazolyl)phenyl]hydrazone (CA INDEX NAME)

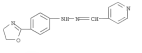
RN 774236-75-8 CAPLUS
CN 4-Pyridinecarboxaldehyde, 2-[4-(4,5-dihydro-2-oxazolyl)phenyl]hydrazone (CA INDEX NAME)



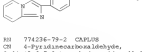
RN 774236-70-3 CAPLUS
CN Hydrazinecarboxylic acid, 3-[4-[4-(hydroxymethyl)-5-oxazolyl]phenyl]-2-(4-pyridinylmethylene)-, 1,1-dimethylethyl ester (CA INDEX NAME)



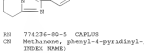
RN 774236-71-4 CAPLUS
CN 4-Pyridinecarboxaldehyde, 2-[4-[4-(hydroxymethyl)-5-oxazolyl]phenyl]hydrazone (CA INDEX NAME)



RN 774236-78-1 CAPLUS
CN 4-Pyridinecarboxaldehyde, 2-(4-imidazo[1,2-a]pyridin-2-ylphenyl)hydrazone (CA INDEX NAME)

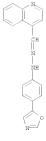


RN 774236-79-2 CAPLUS
CN 4-Pyridinecarboxaldehyde, 2-[4-(5,6,7,8-tetrahydroimidazo[1,2-a]pyridin-2-yl)phenyl]hydrazone (CA INDEX NAME)



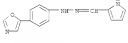
RN 774236-80-5 CAPLUS
CN Methanone, phenyl-4-pyridinyl-, 2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)

RN 774236-82-7 CAPLUS
CN 4-Quinolinecarboxaldehyde, 2-[4-[5-oxazolyl]phenyl]hydrazone (CA INDEX NAME)



RN 774236-83-8 CAPLUS
CN Ethanone, 1-[4-pyridinyl]-, 2-[4-[5-oxazolyl]phenyl]hydrazone (CA INDEX NAME)

RN 774236-93-2 CAPLUS
CN 1H-Pyrrole-2-carboxaldehyde, 2-[4-[5-oxazolyl]phenyl]hydrazone (CA INDEX NAME)



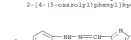
RN 774236-95-4 CAPLUS
CN 2-Thiazolecarboxaldehyde, 2-[4-[5-oxazolyl]phenyl]hydrazone (CA INDEX NAME)

RN 774236-99-8 CAPLUS
CN Carbamic acid, methyl[[2-[[4-[5-oxazolyl]phenyl]hydrazono]methyl]-4-thiazolyl]methyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

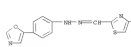
RN 774236-91-8 CAPLUS
CN 2-Pyridinecarboxaldehyde, 2-[4-[5-oxazolyl]phenyl]hydrazone (CA INDEX NAME)

RN 774236-92-9 CAPLUS
CN 3-Pyridinecarboxaldehyde, 2-[4-[5-oxazolyl]phenyl]hydrazone (CA INDEX NAME)

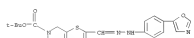
RN 774237-00-2 CAPLUS
CN 2-Thiazolecarboxaldehyde, 4-[(methylamino)methyl]-, 2-[4-[5-oxazolyl]phenyl]hydrazone (CA INDEX NAME)



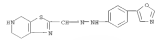
RN 774237-01-3 CAPLUS
CN 2-Thiazolecarboxaldehyde, 4-[(dimethylamino)methyl]-, 2-[4-[5-oxazolyl]phenyl]hydrazone (CA INDEX NAME)



RN 774237-02-4 CAPLUS
CN Thiazolo[5,4-c]pyridine-5(4H)-carboxylic acid, 6,7-dihydro-2-[[2-[4-[5-oxazolyl]phenyl]hydrazinylidene]methyl]-, 1,1-dimethylethyl ester (CA INDEX NAME)

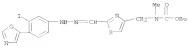


RN 774237-03-5 CAPLUS
CN Thiazolo[5,4-c]pyridine-2-carboxaldehyde, 4,5,6,7-tetrahydro-, 2-[4-[5-oxazolyl]phenyl]hydrazone (CA INDEX NAME)

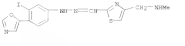


RN 774237-04-6 CAPLUS
CN Thiazolo[5,4-c]pyridine-2-carboxaldehyde, 4,5,6,7-tetrahydro-5-methyl-, 2-[4-[5-oxazolyl]phenyl]hydrazone (CA INDEX NAME)

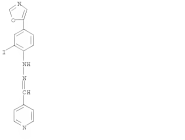
RN 774237-26-2 CAPLUS
CN Carbamic acid, [[2-[[[3-iodo-4-(5-oxazolyl)phenyl]hydrazono]methyl]-4-thiazolyl]methyl]methyl-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



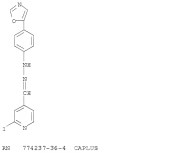
RN 774237-27-3 CAPLUS
CN 2-Thiazolecarboxaldehyde, 4-[(methylamino)methyl]-, 2-[5-iodo-4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)



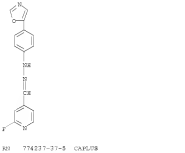
RN 774237-28-4 CAPLUS
CN 4-Pyridinecarboxaldehyde, 2-[2-iodo-4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)



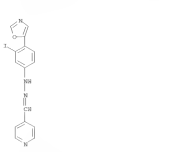
RN 774237-29-5 CAPLUS



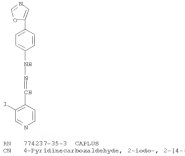
RN 774237-36-4 CAPLUS
CN 4-Pyridinecarboxaldehyde, 2-fluoro-, 2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)



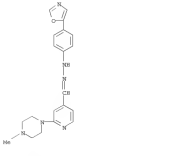
RN 774237-37-5 CAPLUS
CN 4-Pyridinecarboxaldehyde, 2-(4-methyl-1-piperazinyl)-, 2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)



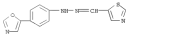
RN 774237-34-2 CAPLUS
CN 4-Pyridinecarboxaldehyde, 3-iodo-, 2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)



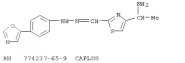
RN 774237-35-3 CAPLUS
CN 4-Pyridinecarboxaldehyde, 2-iodo-, 2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)



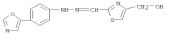
RN 774237-63-7 CAPLUS
CN 5-Thiazolecarboxaldehyde, 2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)



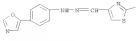
RN 774237-64-8 CAPLUS
CN 2-Thiazolecarboxaldehyde, 4-(1-aminoethyl)-, 2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)



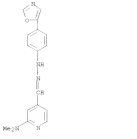
RN 774237-65-9 CAPLUS
CN 2-Thiazolecarboxaldehyde, 4-(hydroxymethyl)-, 2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)



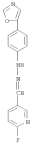
RN 774237-66-0 CAPLUS
CN 4-Thiazolecarboxaldehyde, 2-(hydroxymethyl)-,
2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)



RN 774237-67-1 CAPLUS
CN 4-Pyridinecarboxaldehyde, 2-(dimethylamino)-,
2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)



RN 774237-68-2 CAPLUS
CN 3-Pyridinecarboxaldehyde, 6-fluoro-, 2-[4-(5-oxazolyl)phenyl]hydrazone
(CA INDEX NAME)



RN 774237-69-3 CAPLUS
CN 3-Pyridinecarboxaldehyde, 6-(4-methyl-1-piperazinyl)-,
2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)

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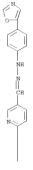

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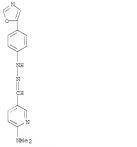
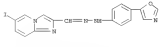
RN 774237-70-6 CAPLUS
CN 3-Pyridinecarboxaldehyde, 6-(dimethylamino)-,
2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)



RN 774237-71-7 CAPLUS
CN 1H-Indazole-2-carboxaldehyde, 2-[4-(5-oxazolyl)phenyl]hydrazone (CA
INDEX NAME)

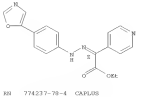
RN 774237-74-0 CAPLUS
CN 4-Pyridinecarboxaldehyde, 1,2,3,6-tetrahydro-1-(phenylmethyl)-,
2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)

RN 774237-75-1 CAPLUS
CN Imidazo[1,2-a]pyridine-2-carboxaldehyde, 6-iodo-,
2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)



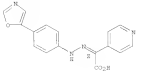
RN 774237-77-3 CAPLUS
CN 4-Pyridineacetic acid, α-[2-[4-(5-oxazolyl)phenyl]hydrazinylidene]-,
ethyl ester, (aE)- (CA INDEX NAME)

Double bond geometry as shown.



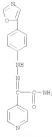
RN 774237-78-4 CAPLUS
CN 4-Pyridineacetic acid, α-[2-[4-(5-oxazolyl)phenyl]hydrazinylidene]-,
hydrochloride (1:1), (aE)- (CA INDEX NAME)

Double bond geometry as shown.



● HCl

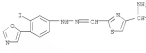
RN 774237-79-5 CAPLUS
CN 4-Pyridineacetamide, α-[2-[4-(5-oxazolyl)phenyl]hydrazinylidene]- (CA INDEX NAME)



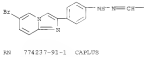
RN 774237-80-8 CAPLUS
CN 4-Pyridineacetamide, N-(2-hydroxyethyl)-α-[2-[4-(5-oxazolyl)phenyl]hydrazinylidene]-, (αE)- (CA INDEX NAME)

Double bond geometry as shown.

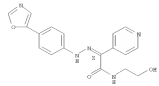
RN 774237-87-5 CAPLUS
CN 2-Thiazolecarboxaldehyde, 4-(2-aminoethyl)-, 2-[3-iodo-4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)



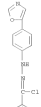
RN 774237-90-0 CAPLUS
CN 4-Pyridinecarboxaldehyde, 2-[4-(6-bromoimidazo[1,2-a]pyridin-2-yl)phenyl]hydrazone (CA INDEX NAME)



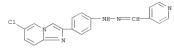
RN 774237-91-1 CAPLUS
CN 4-Pyridinecarboxaldehyde, 2-[4-(6-chloroimidazo[1,2-a]pyridin-2-yl)phenyl]hydrazone (CA INDEX NAME)



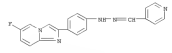
RN 774237-81-9 CAPLUS
CN 4-Pyridinecarbohydrazonoyl chloride, N-[4-(5-oxazolyl)phenyl]- (CA INDEX NAME)



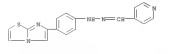
RN 774237-86-4 CAPLUS
CN 4-Pyridinecarboxaldehyde, 2-[3-fluoro-4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)



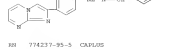
RN 774237-92-2 CAPLUS
CN 4-Pyridinecarboxaldehyde, 2-[4-(6-fluoroimidazo[1,2-a]pyridin-2-yl)phenyl]hydrazone (CA INDEX NAME)



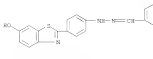
RN 774237-93-3 CAPLUS
CN 4-Pyridinecarboxaldehyde, 2-(4-imidazo[2,1-b]thiazol-6-ylphenyl)hydrazone (CA INDEX NAME)



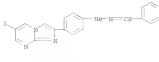
RN 774237-94-4 CAPLUS
CN 4-Pyridinecarboxaldehyde, 2-[4-imidazo[1,2-a]pyrimidin-2-ylphenyl]hydrazone (CA INDEX NAME)



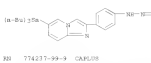
RN 774237-95-5 CAPLUS
CN 4-Pyridinecarboxaldehyde, 2-[4-(6-hydroxy-2-benzothiazolyl)phenyl]hydrazone (CA INDEX NAME)



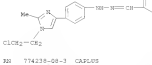
RN 774237-96-6 CAPLUS
CN 4-Pyridinecarboxaldehyde, 2-[4-(6-iodoimidazo[1,2-a]pyrimidin-2-yl)phenyl]hydrazone (CA INDEX NAME)



RN 774237-97-7 CAPLUS
CN 4-Pyridinecarboxaldehyde, 2-[4-(6-(tributylstannyl)imidazo[1,2-a]pyridin-2-yl)phenyl]hydrazone (CA INDEX NAME)

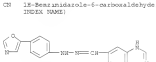


RN 774237-99-9 CAPLUS
CN 4-Pyridinecarboxaldehyde, 2-[4-[1-(2-chloroethyl)-2-methyl-1H-imidazol-4-yl]phenyl]hydrazone (CA INDEX NAME)

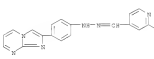


RN 774238-08-3 CAPLUS
CN Carbamic acid, [[2-[(E)-[[4-(6-iodoimidazo[1,2-a]pyridin-2-yl)phenyl]hydrazono]methyl]-4-thiazolyl]methyl]methyl-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

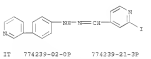
RN 774238-21-0 CAPLUS
CN 1H-Benzimidazole-6-carboxaldehyde, 2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)



RN 774238-29-8 CAPLUS
CN 4-Pyridinecarboxaldehyde, 2-iodo-, 2-(4-imidazo[1,2-a]pyrimidin-2-ylphenyl)hydrazone (CA INDEX NAME)

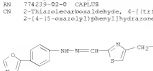


RN 774238-30-1 CAPLUS
CN 4-Pyridinecarboxaldehyde, 2-iodo-, 2-[4-(3-pyridinyl)phenyl]hydrazone (CA INDEX NAME)

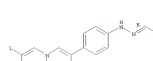


IT 774239-02-09 774239-21-3P 774239-31-5P
774239-32-6P 774239-58-6P
RL: RCT (Reactant); RPR (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of benzaldehyde or heterocycle carboxaldehyde hydrazone derivs. as inhibitors of agglutination and/or deposition of amyloid protein or amyloid-like protein)

RN 774239-02-0 CAPLUS
CN 2-Thiazolecarboxaldehyde, 4-[(triphenylmethoxy)methyl]-, 2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)



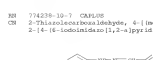
Double bond geometry as shown.



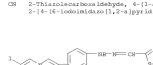
RN 774239-09-4 CAPLUS
CN Carbamic acid, [[2-[(S)-[[4-(6-iodoimidazo[1,2-a]pyridin-2-yl)phenyl]hydrazono]methyl]-4-thiazolyl]methyl]methyl-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Double bond geometry as shown.

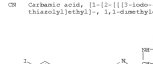
RN 774239-10-7 CAPLUS
CN 2-Thiazolecarboxaldehyde, 4-[(methylamino)methyl]-, 2-[4-(6-iodoimidazo[1,2-a]pyridin-2-yl)phenyl]hydrazone (CA INDEX NAME)



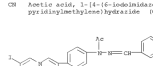
RN 774239-11-8 CAPLUS
CN 2-Thiazolecarboxaldehyde, 4-(1-aminoethyl)-, 2-[4-(6-iodoimidazo[1,2-a]pyridin-2-yl)phenyl]hydrazone (CA INDEX NAME)



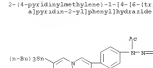
RN 774239-21-3 CAPLUS
CN Carbamic acid, 1H-[2-[[3-iodo-4-(5-oxazolyl)phenyl]hydrazono]methyl]-4-thiazolyl]ethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



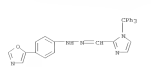
RN 774239-31-5 CAPLUS
CN Acetic acid, 1-[4-(6-iodoimidazo[1,2-a]pyridin-2-yl)phenyl]-2-(4-pyridinylmethylene)hydrazide (CA INDEX NAME)



RN 774239-32-6 CAPLUS
CN Acetic acid, 2-(4-pyridinylmethylene)-1-[4-[6-(tributylstannyl)imidazo[1,2-a]pyridin-2-yl]phenyl]hydrazide (CA INDEX NAME)



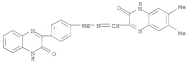
RN 774239-58-6 CAPLUS
CN 1H-Imidazole-2-carboxaldehyde, 1-(triphenylmethyl)-, 2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)



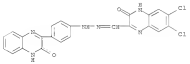
OS.CITING REF COUNT: 6 THERE ARE 6 CAPLUS RECORDS THAT CITE THIS RECORD

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

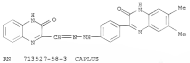
NAME]



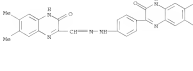
RN 713527-53-8 CAPLUS
CN 2-Quinoxalinecarboxaldehyde, 6,7-dichloro-3,4-dihydro-3-oxo-, 2-[2-[4-(3,4-dihydro-3-oxo-2-quinoxalinyl)phenyl]hydrazone] (CA INDEX NAME)



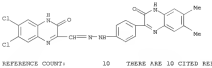
RN 713527-57-2 CAPLUS
CN 2-Quinoxalinecarboxaldehyde, 3,4-dihydro-3-oxo-, 2-[2-[4-(3,4-dihydro-6,7-dimethyl-3-oxo-2-quinoxalinyl)phenyl]hydrazone] (CA INDEX NAME)



RN 713527-58-3 CAPLUS
CN 2-Quinoxalinecarboxaldehyde, 3,4-dihydro-6,7-dimethyl-3-oxo-, 2-[2-[4-(3,4-dihydro-6,7-dimethyl-2-oxo-2-quinoxalinyl)phenyl]hydrazone] (CA INDEX NAME)



RN 713527-59-4 CAPLUS
CN 2-Quinoxalinecarboxaldehyde, 6,7-dichloro-3,4-dihydro-3-oxo-, 2-[2-[4-(3,4-dihydro-6,7-dimethyl-3-oxo-2-quinoxalinyl)phenyl]hydrazone] (CA INDEX NAME)



REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

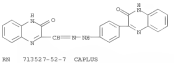
ACCESSION NUMBER: 2004:395123 CAPLUS
DOCUMENT NUMBER: 141:89064
TITLE: The synthesis of some polycyclic N-N acids with quinoxaline and [1,2,4]triazines
AUTHOR(S): Wiedermannova, Iveta; Otypka, Michal; Stypula, Jakub; Sloska, Jan
CORPORATE SOURCE: Dep. Org. Chem., Palacky Univ., Olomouc, 771 46, Czech Rep.
SOURCE: ARKIVOC (Gainesville, FL, United States) (2003), (15), 65-74
CODEN: AGFUAR
URL: http://arkat-usa.org/ark/journal/2003/General_Part(gv)/03-5148/5148.pdf
PUBLISHER: Arkat USA Inc.
DOCUMENT TYPE: Journal; (online computer file)
LANGUAGE: English
OTHER SOURCE(S): CASREACT 141:89064
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB 3-(2-Aminophenyl)- and 3-(2-aminobenzyl)-1,2-dihydroquinoxalin-2-ones were diazotized and the resulting diazonium salts were coupled with Et cyanoacetylarbamate or 3-methyl-1,2-dihydroquinoxalin-2-ones. In this manner, the corresponding hydrazones with one 1,2-dihydroquinoxalin-2-one ring and hydrazones with two 1,2-dihydroquinoxalin-2-one rings, e.g., I, were obtained. Cyclization of hydrazones afforded oxopods containing 6-azauracil and also 1,2-dihydroquinoxalin-2-one rings, e.g., II.

IT 713527-51-0P 713527-52-7P 713527-53-8P
713527-57-2P 713527-58-3P 713527-59-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of hydrazonobenzyl- and hydrazonophenylquinoxalinones via diazotization of aminobenzyl- and aminophenylquinoxalinones followed by condensation with methylquinoxalinones)

RN 713527-51-6 CAPLUS
CN 2-Quinoxalinecarboxaldehyde, 3,4-dihydro-3-oxo-, 2-[2-[4-(3,4-dihydro-3-oxo-2-quinoxalinyl)phenyl]hydrazone] (CA INDEX NAME)



RN 713527-52-7 CAPLUS
CN 2-Quinoxalinecarboxaldehyde, 3,4-dihydro-6,7-dimethyl-3-oxo-, 2-[2-[4-(3,4-dihydro-3-oxo-2-quinoxalinyl)phenyl]hydrazone] (CA INDEX

L14 ANSWER 11 OF 35 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2004:218462 CAPLUS
DOCUMENT NUMBER: 140:261479
TITLE: Optical recording material containing formazan metal chelate, recording method and apparatus
INVENTOR(S): Tomura, Tatsuya; Sato, Tatsuro; Ueno, Yasunobu; Noguchi, Takashi
PATENT ASSIGNEE(S): Ricoh Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Kobo, 33 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2004062935	A	20040318	JP 2002-249619	20020828
JP 4087194	B2	20080521		
PRIORITY APPLN. INFO.:			JP 2002-249619	20020828

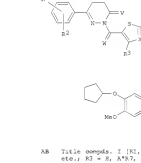
OTHER SOURCE(S): MARPAT 140:261479
AB The material comprises a support coated with a recording layer containing (A) a dye selected from formazan metal chelate compound, azo metal chelate compound and cyanine compound, and (B) formazan metal chelate compound having longer film absorption spectra than that of A. The optical recording method and apparatus using the material and recorded by 600-700 nm wavelength light are also claimed. The material shows good lightfastness, storage stability, and wavelength dependence on recording is prevented.
IT 577714-42-8, chelate with nickel
RL: TEM (Technical, or engineered material use); USES (Uses)
(optical recording material containing formazan metal chelate, azo metal chelate, and/or cyanine compound)
RN 577714-42-8 CAPLUS
CN Methanone, [2-[2-pyrimidinyl]diazenyl]-2-thienyl-, 2-[4-[4-morpholinyl]phenyl]hydrazone (CA INDEX NAME)

L14 ANSWER 12 OF 35 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2004:2882 CAPLUS
DOCUMENT NUMBER: 140:77154
TITLE: Preparation of thiazoles as phosphodiesterase IV inhibitors for the treatment of osteoporosis, tumors and cachexia
INVENTOR(S): Eggenweiler, Hans-Michael; Wolf, Michael
PATENT ASSIGNEE(S): Merck Patent G.m.b.H., Germany
SOURCE: PCT Int. Appl., 125 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

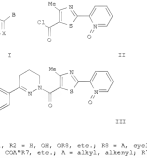
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004000839	A1	20031231	WO 2003-EP4474	20030428
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 10227649	A1	20040108	DE 2002-10227649	20020619
CA 2489962	A1	20031231	CA 2003-2489962	20030428
AU 2003233215	A1	20040106	AU 2003-233215	20030428
AU 2003233215	B2	20090430		
BR 2003013579	A	20050315	BR 2003-13579	20030428
EP 1513837	A1	20050316	EP 2003-760583	20030428
EP 1513837	B1	20060830		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
CN 1662519	A	20050831	CN 2003-814690	20030428
JP 2005530825	T	20051013	JP 2004-514623	20030428
JP 4555076	B2	20100929		
AT 338041	T	20060915	AT 2003-760583	20030428
ES 2271442	T3	20070416	ES 2003-760583	20030428
MX 2004012438	A	20050419	MX 2004-12438	20041209
US 20050223160	A1	20051006	US 2004-518503	20041220
US 7790723	B2	20100907		
ZA 2005004484	A	20060426	ZA 2005-484	20050118
PRIORITY APPLN. INFO.:			DE 2002-10227649 A	20020619
			WO 2003-EP4474 W	20030428

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): MARPAT 140:77154
GI

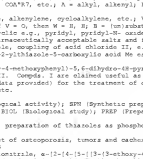
L14 ANSWER 12 OF 35 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)



I



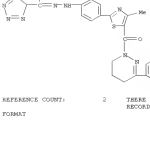
II



III

AB Title compds. I [R1, R2 = H, OH, OR3, etc.; R3 = A, cycloalkyl, alkenyl, etc.; R3 = H, A?R?, COA*R?, etc.; A = alkyl, alkoxyl; R7 = H, CO2R, CONR2, etc.; A* = alkylene, alkenylene, cycloalkylene, etc.; V, W = O, OH with the proviso that if V = O, then W = H, R; R = (un)substituted aromatic isocyclic, heterocyclic e.g., pyridyl, pyridyl-N- oxide, thienyl, etc.; X = N, CR3; their pharmaceutically acceptable salts and formulations were prepared. For example, coupling of acid chloride II, e.g., prepared from 4-ethyl-2-pyridin-2-ylthiazole-5-carboxylic acid Me ester in 3-steps, and 3-(3-cyclopentyloxy-4-methoxyphenyl)-5,6-dihydro-4H-pyridazine afforded claimed thiazole III. Compds. I are claimed useful as phosphodiesterase IV inhibitors (no data provided) for the treatment of osteoporosis, tumors, cachexia, etc.
IT 640743-94-09
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(drug candidate; preparation of thiazoles as phosphodiesterase IV inhibitors for the treatment of osteoporosis, tumors and cachexia)
RN 640743-94-0 CAPLUS
CN 5H-Tetrazole-5-acetonitrile, a-[2-[4-[5-[[3-(3-ethoxy-4-methoxyphenyl)-5,6-dihydro-2(4H)-pyridazinyl]carbonyl]-4-methyl-2-thiazolyl]phenyl]hydrazinylidene]- (CA INDEX NAME)

L14 ANSWER 12 OF 35 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)



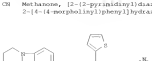
REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 13 OF 35 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2003:632743 CAPLUS
DOCUMENT NUMBER: 139:171330
TITLE: Optical recording medium, optical recording method and
optical recording device
INVENTOR(S): Noguchi, Soh; Satoh, Tsutomu; Tomura, Tatsuya; Ueno, Yasunobu; Yashiro, Tohru; Ishimi, Yasumi; Shimizu, Ikuo; Kitagawa, Motoharu; Toyoda, Hiroshi; Yamada, Shinhe
PATENT ASSIGNEE(S): Ricoh Company, Ltd., Japan; Kyowa Hakko Kogyo Co., Ltd.; Kyowa Yuka Co., Ltd.
SOURCE: Eur. Pat. Appl., 45 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1335357	A1	20030813	EP 2003-2913	20030210
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
JP 2002350602	A	20021205	JP 2002-14893	20020517
JP 3709122	B2	20050125		
JP 2002351950	A	20021206	JP 2002-148122	20020522
JP 3709124	B2	20050125		
US 20020206514	A1	20021106	US 2003-357813	20030204
US 6794021	B2	20040921		
CA 2418572	A1	20030812	CA 2003-2418572	20030210
TW 237084	B	20050721	TW 2003-102671	20030210
JP 2004042626	A	20040212	JP 2003-139139	20030516
JP 4250021	B2	20090408		
PRIORITY APPLN. INFO.:			JP 2002-34725	A 20020212
			JP 2002-142718	A 20020517
			JP 2002-143691	A 20020517
			JP 2002-148122	A 20020522

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): MARPAT 139:171330
AB An optical recording medium has a substrate, and a recording layer provided on the substrate and containing: (a) a formazan metal chelate including a formazan compound and a metal component, (b) a squarylium metal
chelate including a squarylium compound and a metal component; and (c) at least one addnl. dye selected from phthalocyanine compds. and pentamethine
cyanine compds. Alternatively, the recording layer contains (a) a first formazan metal chelate including a first formazan compound and a first metal
component and having the maximum absorption wavelength in the range of 500-650 nm, (b) a squarylium metal chelate including a squarylium compound
and a metal component; and (c) a second formazan metal chelate including a
second formazan compound and a second metal component and having the maximum

L14 ANSWER 13 OF 35 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)
absorption wavelength different from that of the first formazan metal chelate and in the range of 650-750 nm.
IT 577716-42-8D, chelate with Ni
RL: TEM (Technical or engineered material use); USES (Uses)
(formazan metal chelates; optical recording medium and device)
RN 577716-42-8 CAPLUS
CN Methanone, [2-[2-pyrimidinyl]diazenyl]-2-thienyl-, 2-[4-[4-morpholinyl]phenyl]hydrazone (CA INDEX NAME)



OS.CITING REF COUNT: 10 THERE ARE 10 CAPLUS RECORDS THAT CITE THIS RECORD (19 CITINGS)
REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 14 OF 35 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2003:61192 CAPLUS
DOCUMENT NUMBER: 139:242218
TITLE: Complete structure analysis of OR-1746, a complex product of cyclocondensation of arylhydrazonalononitriles containing clusters of protonated and unprotonated nitrogens, by pulsed-field-gradient heteronuclear NMR
AUTHOR(S): Pelletier, Yves; Poze, Pentti
CORPORATE SOURCE: Cardiovascular Research and Development, Orion Pharma, Espoo, FIN-02101, Finland
SOURCE: Journal of Pharmaceutical and Biomedical Analysis (2003), 31(1), 125-133
CODEN: JPBADA; ISSN: 0731-7085
PUBLISHER: Elsevier Science B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English
AB OR-1746, or (4-Ethoxy-6-imino-5-{[4-(4-methyl-6-oxo-1,4,5,6-tetrahydropyridazin-3-yl)phenyl]hydrazono}-5,6-dihydro-1H-pyrimidin-2-yl)acet-[4-(4-methyl-6-oxo-1,4,5,6-tetrahydropyridazin-3-yl)phenyl]azol-acetonitrile as the product of the cyclocondensation of two mols. of the arylhydrazonalononitrile levoalmandax (CAS registry number [141925-33-1]) with ethanol. OR-1746 is a mol. with a complex structure containing clusters
of protonated and unprotonated nitrogens. Its structure was only partially elucidated by elemental anal. and by conventional NMR. However, the presence of many unprotonated nitrogen atoms did not allow the unambiguous assignment of the 1H, 13C and 15N NMR spectra with short-range
hetero-correlated techniques, or even with traditional long-range 2D expts. Pulsed-field-gradient heteronuclear multiple bond coherence sequences (PFG 1H-13C and PFG 1H-15N) were, therefore, used to fully assign the NMR spectra and elucidate the chemical structure of OR-1746. By
using these techniques, long-range couplings between protons and carbons or proton and nitrogen atoms as distant as five bonds in the structure were detected without loosing the signals of the protonated heteroatoms. The long range coupling information provided by the novel NMR experiment can be
used effectively in the complete structure determination of complex mols. containing
clusters of protonated and unprotonated nitrogens.
IT 828438-79-0, OR 1746
RL: ANT (Analyte); ANST (Analytical study)
(structure anal. of OR-1746 derived from cyclocondensation of arylhydrazonalononitriles containing clusters of protonated and unprotonated nitrogens by pulsed-field-gradient heteronuclear NMR)
RN 828438-79-0 CAPLUS
CN 2-Pyrimidineacetonitrile, 4-amino-6-ethoxy-5-[2-[4-[(6R)-1,4,5,6-tetrahydro-6-methyl-6-oxo-3-pyridazinyl]phenyl]diazenyl]-, (5-[4-[(4R)-1,4,5,6-tetrahydro-6-methyl-6-oxo-3-pyridazinyl]phenyl]hydrazinylidene)- (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

L14 ANSWER 14 OF 35 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)

PAGE 1-A

PAGE 1-B

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OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)
REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

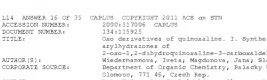
L14 ANSWER 15 OF 35 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1982:539833 CAPLUS
DOCUMENT NUMBER: 137:116971
TITLE: Photosensitive compositions for presensitized lithographic plates and their photopolymerization by laser scanning
INVENTOR(S): Morota, Yasufumi; Sorori, Tadahiro
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 29 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002082298	A	20020719	JP 2000-401891	20001228
PRIORITY APPLN. INFO.:			JP 2000-401891	20001228

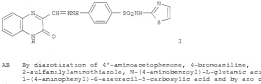
OTHER SOURCE(S): MARPAT 137:116971
AB The photosensitive compns. having high sensitivity to semiconductor laser light and good storage stability contain sensitizing dyes shown as [Ar1(:R6-R2).Z-]n [Ar = aromatic ring; A = NR3R4, SR5, OR6; R = H, monovalent nonmetal atom. group; Z- = counter ion which may not be necessary when the dye cation part has anionic substituent; preferably, Z = halogen, perchlorate, tetrafluoroborate, hexafluorophosphate, (aryl)sulfonate], titanocenes, and polymerizable compds. which may be addition-polymerizable compds. bearing ethylenically unsatd. double bonds. The compns. are polymerized by exposing to 470-nm laser light.
IT 442512-25-6
RL: CAT (Catalyst use); USES (Uses)
(sensitizing dye; photosensitive compns. for presensitized lithog. plates for semiconductor laser scanning)
RN 442512-25-6 CAPLUS
CN Benzothiazolium, 2-[4-[(chloro[3-methylbenzothiazolium-2-yl]methylene]hydrazino]phenyl]-3-methyl-, sulfamate (1:2) (9CI) (CA INDEX NAME)

CM 1

CN 47633-55-9
CMF C23 H19 Cl N4 S2

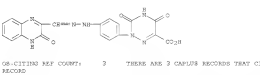


L14 ANSWER 16 OF 35 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2000:117006 CAPLUS
DOCUMENT NUMBER: 134:115923
TITLE: Geo derivatives of quinoxaline. I. Synthesis of some arylhydrazones of 2-oxo-1,2-dihydroquinoxaline-3-carboxaldehyde
AUTHOR(S): Wiedenarnova, Iveta; Magdonova, Jana; Sloska, Jan
CORPORATE SOURCE: Department of Organic Chemistry, Palacky University, Olomouc, 771 46, Czech Rep.
SOURCE: Acta Universitatis Palackianae Olomucensis, Facultas Rerum Naturalium, Chemica (1999), 38, 83-90
CODEN: AUPCTQ; ISSN: 0232-0061
PUBLISHER: Vydavatelstvi Univerzity Palackeho
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 134:115923
GI



I

AB By diazotization of 4'-aminoacetophenone, 4-bromoaniline, 2-sulfamylbenzothiazole, N-[4-aminobenzoyl]-L-glutamic acid, and 1-(4-aminophenyl)-4-azauracil-3-carboxylic acid and by azo coupling of the diazonium salts formed with 3-methyl-2(1H)-quinoxalinone were prepared hydrazones, e.g., I.
IT 321337-23-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 321337-23-3 CAPLUS
CN 2,4,4-Triazine-6-carboxylic acid, 2-[4-[2-[3,4-dihydro-3-oxo-2-quinoxalinyl]methylene]hydrazinyl]phenyl]-2,3,4,5-tetrahydro-3,5-dioxo- (CA INDEX NAME)



OS.CITING REF COUNT: 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD
(3 CITINGS)
REFERENCE COUNT: 45 THERE ARE 45 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 15 OF 35 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)
CM 2

CN 15853-39-1
CMF H2 N O3 S

OS.CITING REF COUNT: 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD
(3 CITINGS)

L14 ANSWER 17 OF 35 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1995:542869 CAPLUS
DOCUMENT NUMBER: 123:228065
ORIGINAL REFERENCE NO.: 123:40735a,40738a
TITLE: Synthesis of new spin labels based on aminoaryl-substituted imidazoline nitroxides
AUTHOR(S): Reznikov, V. A.; Berezina, T. A.; Kirilyuk, I. A.; Volodarskii, L. B.
CORPORATE SOURCE: Novosibirsk Inst. Org. Chem., Siberian Branch Russian Acad. Sci., Novosibirsk, 630090, Russia
SOURCE: Izvestiya Akademii Nauk, Seriya Khimicheskaya (1994), (3), 465-8
CODEN: IASKEA
PUBLISHER: Institut Organicheskoi Khimii im. N. D. Zelinskogo Rossiiskoi Akademii Nauk
DOCUMENT TYPE: Journal
LANGUAGE: Russian
AB New spin labels, i.e., azides and isothiocyanates, are prepared from aminoaryl-substituted nitroxides, which are derivs. of 3-imidazoline and 3-imidazoline 3-oxide. The isothiocyanates are converted to new complexonyl, i.e., iminodiacetic acid derivs.
IT 168335-03-3P 168335-06-6P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of spin labels based on aminoaryl-substituted imidazoline nitroxides)
RN 168335-03-3 CAPLUS
CN 1H-Imidazol-1-yloxy, 2,5-dihydro-2,4,5,5-tetramethyl-2-[4-[[(2,2,5,5-pentamethyl-1-oxy-4-imidazolidinylidene)methyl]azo]phenyl]- (9CI) (CA INDEX NAME)

RN 168335-06-6 CAPLUS
CN 1H-Imidazol-1-yloxy, 2,5-dihydro-2,2,5,5-tetramethyl-4-[4-[[(2,2,5,5-pentamethyl-1-oxy-4-imidazolidinylidene)methyl]azo]phenyl]-, 3-oxide (9CI)
(CA INDEX NAME)

OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD

L14 ANSWER 18 OF 35 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1993:179931 CAPLUS
DOCUMENT NUMBER: 118:179931
ORIGINAL REFERENCE NO.: 118:30645a,30648a
TITLE: Silver halide photographic material
INVENTOR(S): Kato, Kazumoby
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 26 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 04339432	A	19921118	JP 1991-128214	19910502
US 5262274	A	19931116	US 1992-876306	19920430
PRIORITY APPLN. INFO.:			JP 1991-128214	A 19910502

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
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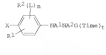
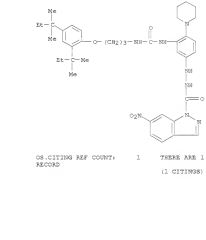


AB In the title material comprising a support having thereon one or more photosensitive layers, the photosensitive layers or other hydrophilic colloid layers contain a compound represented by I. For I, X = hydroxy, amino, sulfonamido; R1 = H, amino, halogen, hydroxy, etc.; L = a divalent linking group; n = 0 or 1; E2 = an aliphatic group, an aromatic moiety, or a heterocyclic ring group; PUG = a photog. useful group; Time = a divalent linking group; t = 0 or 1; A1, A2 = H, alkylsulfonyl, acyl, etc.; at least one of A1 and A2 is H; G = CO, COCO, CS, etc. The title material gives high-quality images.
IT 146657-34-3
RL: TEM (Technical or engineered material use); USES (Uses)
(silver halide photog. materials containing)
RN 146657-34-3 CAPLUS
CN 1H-Indazole-1-carboxylic acid, 6-nitro-,
2-[3-[[[[3-[2,4-bis(1,1-dimethylpropyl)phenoxy]propyl]amino]carbonyl]amino
]-4-(1-piperidinyl)phenyl]hydrazide (CA INDEX NAME)

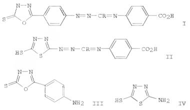


GI.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD
(1 CITINGS)

L14 ANSWER 19 OF 35 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1993:179978 CAPLUS
DOCUMENT NUMBER: 118:179978
ORIGINAL REFERENCE NO.: 118:29311a,29314a
TITLE: Molecular structure of cationic dyes and their mixing properties
AUTHOR(S): Xie, Kongliang; Yang, Jinrong; Hou, YuYen
CORPORATE SOURCE: Inst. Chem. Eng., Dalian Univ. Technol., Dalian, 116012, Peop. Rep. China
SOURCE: Huagong Xuebao (Chinese Edition) (1992), 43(2), 247-54
CODEN: HUKHAI; ISSN: 0438-1157
DOCUMENT TYPE: Journal
LANGUAGE: Chinese
AB The mixing properties of F-containing triazine and azo cationic dyes could be described by the inorg. value (I)-organic value (O) ratio of the dye. The organic and inorg. values of the dye could be as: O value = n×20 + ΣOi and I value = ΣIi (where n is the carbon nos., Oi and Ii the organic value and inorg. value of the substitution group, resp.).
IT 146672-23-3
RL: MSC (Miscellaneous)
(dyes, mixing properties of, inorg. value-organic value ratio in relation to)
RN 146672-23-3 CAPLUS
CN Benzothiazolium, 2-[[2-[4-(2-benzothiazolyl)phenyl]-2-methylhydrazinylidene]methyl]-3-methyl-, chloride (1:1) (CA INDEX NAME)

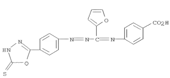
L14 ANSWER 20 OF 35 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 1991:449541 CAPLUS
DOCUMENT NUMBER: 115:49541
ORIGINAL REFERENCE NO.: 115:8601a,8604a
TITLE: Synthesis and anti-inflammatory activity of various α-aryl(heteroaryl)azobenzalaniline derivatives
AUTHOR(S): Pande, Kalpana; Kalsi, Reena; Bhalla, T. N.; Barthwal, J. P.
CORPORATE SOURCE: Dep Pharmacol. Ther., King George's Med. Coll., Lucknow, 226 003, India
SOURCE: Indian Journal of Pharmaceutical Sciences (1989), 51(1), 18-21
CODEN: IJSIDW; ISSN: 0250-474X
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



AB Title compds., e.g., I and II (R = Ph, 2-HOC6H4, 2-furyl), were prepared by diazotization of heteroarylphenyl- and heteroarylamines, e.g., III and IV, followed by coupling reaction with RCH:NC6H4CO2H (R = Ph, 2-HOC6H4, 2-furyl). All the compds. were tested for antiinflammatory activity.
IT 134895-18-4P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation and antiinflammatory activity of)
RN 134895-18-4 CAPLUS
CN Benzoic acid, 4-[[[2-[4-(4,5-dihydro-5-thioxo-1,3,4-oxadiazol-2-yl)phenyl]diazenyl]-2-furanylmethylene]amino]- (CA INDEX NAME)

L14 ANSWER 20 OF 35 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)



OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD
(2 CITINGS)

L14 ANSWER 21 OF 35 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 1991:228967 CAPLUS
DOCUMENT NUMBER: 114:228967
ORIGINAL REFERENCE NO.: 114:38629a,38632a
TITLE: Preparation of arylazinones for treatment of congestive heart failure
INVENTOR(S): Haikala, Heimo Olavi; Honkanen, Erkki Juhani; Lonnberg, Kari Kalevi; Nore, Pentti Tapio; Pystynen, Jarmo Johan; Luiro, Anne Maria; Pippuri, Aino Kyllikki
PATENT ASSIGNEE(S): Orion-Yhtyma Oy, Finland
SOURCE: Brit. UK Pat. Appl., 35 pp.
CODEN: BAXXDU
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
GB 2228004	A	19900815	GB 1990-1853		19900126
GB 2228004	B	19920715			
NO 9000336	A	19900813	NO 1990-336		19900124
NO 178067	B	19951009			
NO 178067	C	19960117			
ES 2078939	T3	19960101	ES 1990-300875		19900129
ZA 9000681	A	19901031	ZA 1990-681		19900130
CZ 286036	B6	19991215	CZ 1990-557		19900206
SK 280411	B6	20000214	SK 1990-557		19900206
AU 9049296	A	19900816	AU 1990-49296		19900208
AU 619648	B2	19920130			
FI 96511	B	19960329	FI 1990-613		19900208
FI 96511	C	19960710			
CA 2009678	A1	19900811	CA 1990-2009678		19900209
CA 2009678	C	19980811			
HU 53090	A2	19900928	HU 1990-747		19900209
HU 204797	B	19920228			
JP 02288868	A	19901128	JP 1990-31339		19900209
JP 3011955	B2	20000221			
US 5019575	A	19910528	US 1990-477530		19900209
DD 293112	A5	19910822	DD 1990-337728		19900209
HU 59384	A2	19920528	HU 1991-3501		19900209
HU 206692	B	19921228			
RU 2048467	C1	19951120	RU 1990-4743235		19900209
CN 1044811	A	19900822	CN 1990-100645		19900210
CN 1036265	C	19971029			
US 5122524	A	19920616	US 1991-670338		19910315
US 5185332	A	19930209	US 1991-669867		19910315
SU 1836362	A3	19930823	SU 1991-4895242		19910505
RU 2068844	C1	19961110	RU 1992-5011896		19920629
LT 3769	B	19960325	LT 1993-1233		19930928
PRIORITY APPLN. INFO.:			GB 1989-3130	A	19890211
			US 1990-477530	A3	19900209

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): CASREACT 114:228967; MARPAT 114:228967
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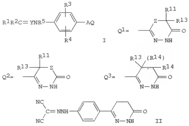
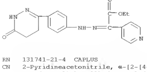
L14 ANSWER 21 OF 35 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)

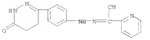


AB The title compds. [I; Q = Q1-Q3; R1, R2 = NO2, cyano, halo, amino, carboxamido, aryl, aroyl, pyridyl, alkoxycarbonyl, acyl, etc.; R1R2 = atoms to complete a (heterocyclic) ring; R3, R4, R5 = H, OH, alkyl; R11, R13, R14 = H, alkyl; A = bond, CH2CH2, CH:CH; Z = S, O, NH; Y = N, CH], were prepared. Thus, aqueous NaNO2 was added to a 0-5° solution of 6-(4-aminophenyl)-4,5-dihydropyridazin-3(2H)-one and HCl in H2O. After 10 min malononitrile in H2O was added the solution was stirred 1.5 h at room temperature to give title compound II. I showed cardiotonic activity in guinea pig right ventricular papillary muscle (EC50's of 0.12-1.8 μM).
IT 131741-12-3P 131741-21-4P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of, as cardiovascular agent)
RN 131741-12-3 CAPLUS
CN 4-Pyridineacetic acid, α-[2-[4-(1,4,5,6-tetrahydro-6-oxo-3-pyridazinyl)phenyl]hydrazinylidene]-, ethyl ester (CA INDEX NAME)



RN 131741-21-4 CAPLUS
CN 2-Pyridineacetonitrile, α-[2-[4-(1,4,5,6-tetrahydro-6-oxo-3-pyridazinyl)phenyl]hydrazinylidene]- (CA INDEX NAME)

L14 ANSWER 21 OF 35 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)



OS.CITING REF COUNT: 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD (5 CITINGS)

L14 ANSWER 22 OF 35 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 1991:81895 CAPLUS
DOCUMENT NUMBER: 114:81895
ORIGINAL REFERENCE NO.: 114:13993a,13996a
TITLE: Preparation of p-heterocyclyl- or p-heterocyclylethenylanıline and -phenylhydrazones for treatment of congestive heart failure
INVENTOR(S): Haikala, Heimo Olavi; Nore, Pentti Tapio; Honkanen, Erkki Juhani; Pystynen, Jarmo Johan; Lonnberg, Kari Kalevi; Luiro, Anne Maria; Pippuri, Aino Kyllikki
PATENT ASSIGNEE(S): Orion-Yhtyma Oy, Finland
SOURCE: Eur. Pat. Appl., 21 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

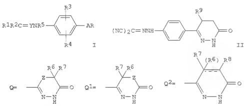
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 383449	A2	19900822	EP 1990-300875	19900129
EP 383449	A3	19910703		
EP 383449	B1	19950906		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL				
NO 9000336	A	19900813	NO 1990-336	19900124
NO 178067	B	19951009		
NO 178067	C	19960117		
ES 2078939	T3	19960101	ES 1990-300875	19900129
ZA 9000681	A	19901031	ZA 1990-681	19900130
CZ 286036	B6	19991215	CZ 1990-557	19900206
SK 280411	B6	20000214	SK 1990-557	19900206
AU 9049296	A	19900816	AU 1990-49296	19900208
AU 619648	B2	19920130		
FI 96511	B	19960329	FI 1990-613	19900208
FI 96511	C	19960710		
CA 2009678	A1	19900811	CA 1990-2009678	19900209
CA 2009678	C	19980811		
HU 53090	A2	19900928	HU 1990-747	19900209
HU 204797	B	19920228		
JP 02288868	A	19901128	JP 1990-31339	19900209
JP 3011955	B2	20000221		
US 5019575	A	19910528	US 1990-477530	19900209
DD 293112	A5	19910822	DD 1990-337728	19900209
HU 59384	A2	19920528	HU 1991-3501	19900209
HU 206692	B	19921228		
RU 2048467	C1	19951120	RU 1990-4743235	19900209
CN 1044811	A	19900822	CN 1990-100645	19900210
CN 1036265	C	19971029		
US 5122524	A	19920616	US 1991-670338	19910315
US 5185332	A	19930209	US 1991-669867	19910315
SU 1836362	A3	19930823	SU 1991-4895242	19910505
RU 2068844	C1	19961110	RU 1992-5011896	19920629
LT 3769	B	19960325	LT 1993-1233	19930928

PRIORITY APPLN. INFO.: GB 1989-3130 A 19890211
US 1990-477530 A3 19900209

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): MARPAT 114:81895

L14 ANSWER 22 OF 35 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)

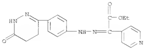
GI



AB The title compds. (I; R = Q, Q1, Q2; R6, R7, R8 = H, alkyl; Z = S, O, NH; A = bond, CH:CH, CH2CH2; R1, R2 = NO2, cyano, halo, NH2, CONH2, aryl, aroyl, pyridyl, alkoxycarbonyl, acyl, etc.; R3-R5 = H, HO, alkyl), useful as cardiotonics, antihypertensives, and vasodilators, are prepared Thus, 0.38 g NaNO2 in H2O was added at 0-5° a stirred solution of 0.95 g 6-(4-aminophenyl)-4,5-dihydropyridazin-3(2H)-one in aqueous HCl; after 10 min, 0.33 g (NC)2CH2 in H2O was added and the resulting solution was stirred 1.5 h at room temperature and adjusted to pH 6.0 with a AcONa solution to give 1.25 g phenyldihydropyridazin-3(2H)-one (II; R9 = H). I were more potent phosphodiesterase isoenzyme (PDE) III inhibitors in dog and guinea-pig heart muscle than MCl-154, milrinone, adibendan, and pimobendan and had significant Ca-dependent binding to troponin. However the cardiotonic activity of I was independent of the extracellular Ca and also the inhibition of PDE III and rather based on the enhancement of the turnover of Ca released from sacroplasmic reticulum and/or the increase of Ca sensitivity of contractile proteins. II (R5 = Me) showed cardiotonic effect in guinea-pig papillary muscle with ED50 of 0.17 and 0.16 µM in the absence and presence of carbachol, resp. and at 100 µM induced tonic contraction in the absence of extracellular Ca.

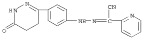
IT 131741-12-3P 131741-21-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, for treatment of congestive heart failure)

RN 131741-12-3 CAPLUS
CN 4-Pyridineacetic acid, α-[2-[4-(1,4,5,6-tetrahydro-6-oxo-3-pyridazinyl)phenyl]hydrazinylidene]-, ethyl ester (CA INDEX NAME)



L14 ANSWER 22 OF 35 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)

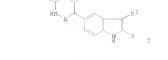
RN 131741-21-4 CAPLUS
CN 2-Pyridineacetonitrile, α-[2-[4-(1,4,5,6-tetrahydro-6-oxo-3-pyridazinyl)phenyl]hydrazinylidene]- (CA INDEX NAME)



OS.CITING REF COUNT: 11 THERE ARE 11 CAPLUS RECORDS THAT CITE THIS RECORD (23 CITINGS)

L14 ANSWER 23 OF 35 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 1990:571973 CAPLUS
DOCUMENT NUMBER: 113:171973
ORIGINAL REFERENCE NO.: 113:29172h,29173a
TITLE: Nonsteroidal cardiotonics. 3. New 4,5-dihydro-6-(1H-indol-5-yl)pyridazin-3(2H)-ones and related compounds with positive inotropic activities
AUTHOR(S): Martens, Alfred; Frieba, Walter Gunar; Moeller-Beckmann, Bernd; Kampe, Wolfgang; Kling, Lothar; Von der Saal, Wolfgang
CORPORATE SOURCE: Dep. Chem., Boehringer Mannheim G.m.b.H., Mannheim, 6802, Germany
SOURCE: Journal of Medicinal Chemistry (1990), 33(10), 2870-5
CODEN: JMCMAR; ISSN: 0022-2623
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 113:171973



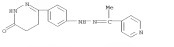
AB A series of substituted indolyldihydropyridazinones I (R = Ph, COiPr, 3-, 4-pyridyl, 4-MeC6H4; R2 = H, Me, Et, CHMe2; R2 = H, Me) and related compds. were synthesized and evaluated for pos. inotropic activity. In rats, most of these indole derivs. produced a dose-related increase in myocardial contractility with little effect on heart rate and blood pressure. I (R = 6-pyridyl, R1 = H; R2 = Me), (II, HM 50.0430), was further investigated in cats. The increase in contractility in this animal model was not mediated via stimulation of β-adrenergic receptors. After oral administration of 1 mg/kg to conscious dogs, II and pimobendan were still active after 6.5 h. However, the cardiotonic effect of II was at least 2-fold that of pimobendan after this period of time. The structural requirements for optimal cardiotonic activity within this class of indole derivs. are a heterocyclic aromatic ring in position 3, a hydrogen or a Me group in position 3 and a dihydropyridazinone ring system in position 5 of the indole.

IT 108158-88-4P 123593-85-7P 123593-86-8P
123593-87-9P 123593-92-6P 123593-93-7P
123593-94-8P 123593-95-9P 123593-96-0P
123593-97-1P 123593-98-2P 123593-99-3P
123615-66-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and cyclization of, indole derivs. from)

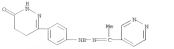
RN 108158-88-4 CAPLUS
CN 3(2H)-Pyridazinone, 4,5-dihydro-6-[4-[2-[3-(4-pyridinyl)ethylidene]hydrazinyl]phenyl]- (CA INDEX NAME)

L14 ANSWER 23 OF 35 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)

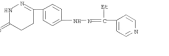
RN 123593-85-7 CAPLUS
CN 3(2H)-Pyridazinone, 4,5-dihydro-6-[4-[2-[3-(4-pyridinyl)ethylidene]hydrazinyl]phenyl]- (CA INDEX NAME)



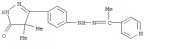
RN 123593-86-8 CAPLUS
CN 3(2H)-Pyridazinone, 4,5-dihydro-6-[4-[2-[3-(4-pyridazinyl)ethylidene]hydrazinyl]phenyl]- (CA INDEX NAME)



RN 123593-87-9 CAPLUS
CN 3(2H)-Pyridazinone, 4,5-dihydro-6-[4-[2-[3-(4-thiazolyl)ethylidene]hydrazinyl]phenyl]- (CA INDEX NAME)



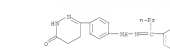
RN 123593-92-6 CAPLUS
CN 3(2H)-Pyridazinone, 4,5-dihydro-6-[4-[2-[1-(4-pyridinyl)propylidene]hydrazinyl]phenyl]- (CA INDEX NAME)



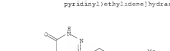
L14 ANSWER 23 OF 35 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)

RN 123593-93-7 CAPLUS
CN 3(2H)-Pyridazinone, 4,5-dihydro-6-[4-[2-[1-(4-pyridinyl)butylidene]hydrazinyl]phenyl]- (CA INDEX NAME)

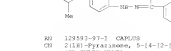
RN 123593-94-8 CAPLUS
CN 3(2H)-Pyridazinone, 4,5-dihydro-6-[4-[2-[3-methyl-1-(4-pyridinyl)butylidene]hydrazinyl]phenyl]- (CA INDEX NAME)



RN 123593-95-9 CAPLUS
CN 3(2H)-Pyridazinone, 4,5-dihydro-5-methyl-6-[4-[2-[1-(4-pyridinyl)ethylidene]hydrazinyl]phenyl]- (CA INDEX NAME)

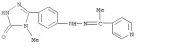


RN 123593-96-0 CAPLUS
CN 3(2H)-Pyridazinone, 4,5-dihydro-5-methyl-6-[4-[2-[1-(4-pyridinyl)propylidene]hydrazinyl]phenyl]- (CA INDEX NAME)



RN 123593-97-1 CAPLUS
CN 2(1H)-Pyrazinone, 5-[4-[2-[1-(4-pyridinyl)ethylidene]hydrazinyl]phenyl]- (CA INDEX NAME)

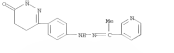
L14 ANSWER 23 OF 35 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)



RN 123593-98-2 CAPLUS
CN 3H-Pyrazol-3-one, 2,4-dihydro-4,4-dimethyl-5-[4-[2-[1-(4-pyridinyl)ethylidene]hydrazinyl]phenyl]- (CA INDEX NAME)

RN 123593-99-3 CAPLUS
CN 3H-1,2,4-Triazol-3-one, 2,4-dihydro-4-methyl-5-[4-[2-[1-(4-pyridinyl)ethylidene]hydrazinyl]phenyl]- (CA INDEX NAME)

RN 129619-66-2 CAPLUS
CN 4H-1,3,4-Oxadiazin-5(6H)-one, 2-[4-[2-[1-(4-pyridinyl)ethylidene]hydrazinyl]phenyl]- (CA INDEX NAME)

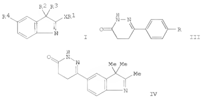


OS.CITING REF COUNT: 14 THERE ARE 14 CAPLUS RECORDS THAT CITE THIS RECORD (14 CITINGS)

L14 ANSWER 24 OF 35 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1989:192649 CAPLUS
DOCUMENT NUMBER: 110:192649
ORIGINAL REFERENCE NO.: 110:31977a,31980a
TITLE: Preparation of 5-heterocyclyl-3H-indoles as cardiovascular agents
INVENTOR(S): Mertens, Alfred; Kling, Lothar; Mueller-Beckmann, Bernd; Von der Saal, Wolfgang
PATENT ASSIGNEE(S): Boehringer Mannheim G.m.b.H., Fed. Rep. Ger.
SOURCE: Ger. Offen., 16 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

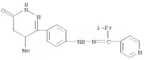
PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
DE 3706427	A1	19880908	DE 1987-3706427		19870227
EP 280224	A2	19880831	EP 1988-102533		19880222
EP 280224	A3	19900411			
EP 280224	B1	19940601			
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE					
AT 106400	T	19940615	AT 1988-102533		19880222
US 4925845	A	19900515	US 1988-159744		19880224
JP 63227587	A	19880921	JP 1988-42432		19880226
PRIORITY APPLN. INFO.:			DE 1987-3706427	A	19870227
			EP 1988-102533	A	19880222

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): MARPAT 110:192649
GI

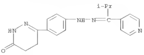


AB The title compds. [I; R1 = R5R6R7C6H2; R2,R3 = alkyl, alkenyl, cycloalkyl, (un)substituted Ph; R2R3 = atoms to complete spirocycloalkyl; R4 = (un)substituted heterocyclyl; R5-R7 = H, alkanesulfonyloxy, CO2H, CONH2, H2NSO2, substituted NH2, (un)sbustituted heterocyclyl, etc., or when X = bond, R5-R7 = alkyl, alkenyl, alkynyl, etc.; X = bond, alkylene, CH:CH, NH, CONH] were prepared as cardiovascular agents (no data). Phenylpyridazinone III (R = NHNH2) was stirred 3 h with Me2CHCOMe in EtOH

L14 ANSWER 24 OF 35 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)
to give III (R = NHN:CMeCHMe2) which was stirred 3 h at 120° in polyphosphoric acid to give title compd. IV.
IT 120271-86-5 120271-88-7
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, in preparation of cardiovascular agents)
RN 120271-86-5 CAPLUS
CN 3(2H)-Pyridazinone, 4,5-dihydro-5-methyl-6-[4-[2-[2-methyl-1-(4-pyridinyl)propylidene]hydrazinyl]phenyl]- (CA INDEX NAME)



RN 120271-88-7 CAPLUS
CN 3(2H)-Pyridazinone, 4,5-dihydro-6-[4-[2-[2-methyl-1-(4-pyridinyl)propylidene]hydrazinyl]phenyl]- (CA INDEX NAME)

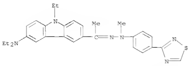


OS.CITING REF COUNT: 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD
(3 CITINGS)

L14 ANSWER 25 OF 35 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1989:31346 CAPLUS
DOCUMENT NUMBER: 110:31346
ORIGINAL REFERENCE NO.: 110:5125a,5128a
TITLE: Electrophotographic photoreceptor containing hydrazone compound
INVENTOR(S): Sugiuchi, Masami; Nakajima, Yuko
PATENT ASSIGNEE(S): Toshiba Corp., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

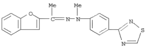
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 63060454	A	19880316	JP 1986-203768	19860901
PRIORITY APPLN. INFO.:			JP 1986-203768	19860901

GI For diagram(s), see printed CA Issue.
AB In the title electrophotog. photoreceptor, a photosensitive layer contains ≥1 hydrazone compound (as a charge-transporting substance) represented by I-V [R1-R5, R11 = H, (un)substituted alkyl, aralkyl, aryl, heterocyclyl; ≥1 of R1 and R2 may be a (un)substituted heterocyclic group when n = 0 or except for R1 = R2 = H; R1 and R2 may form a hydrocarbon ring group or heterocyclic group; when n = 0, R11 H; R6-R9 = H, halogen, alkyl, alkoxy, aryloxy, amino which may be substituted with alkyl or aryl; R10 = substituted heterocyclic group; X = N, S, Se, imino; Z = (un)substituted condensed polycyclic aromatic hydrocarbon group]. The electrophotog. photoreceptor shows improved photosensitivity, charge characteristics, stability of residual potential, and durability.
IT 116827-62-4 116827-63-5 116827-84-0
RL: USES (Uses)
(charge-transporting substance, electrophotog. photoreceptor containing)
RN 116827-62-4 CAPLUS
CN Ethanone, 1-[6-(diethylamino)-9-ethyl-9H-carbazol-3-yl]-, 2-methyl-2-[4-(1,2,4-thiadiazol-3-yl)phenyl]hydrazone (CA INDEX NAME)

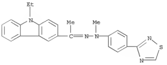


RN 116827-63-5 CAPLUS
CN Ethanone, 1-(2-benzofuranyl)-, 2-methyl-2-[4-(1,2,4-thiadiazol-3-yl)phenyl]hydrazone (CA INDEX NAME)

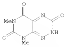
L14 ANSWER 25 OF 35 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)



RN 116827-84-0 CAPLUS
CN Ethanone, 1-(9-ethyl-9H-carbazol-3-yl)-, 2-methyl-2-[4-(1,2,4-thiadiazol-3-yl)phenyl]hydrazone (CA INDEX NAME)



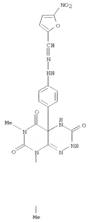
L14 ANSWER 26 OF 35 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1988:131765 CAPLUS
DOCUMENT NUMBER: 108:131765
ORIGINAL REFERENCE NO.: 108:21619a,21622a
TITLE: Synthesis and some properties of 4a derivatives of 6,8-dimethylpyrimido[5,4-e][1,2,4]triazine-3,5,7-trione
AUTHOR(S): Azev, Yu. A.; Mudretsova, I. I.; Sidorov, E. O.; Pidemskii, E. L.; Goleneva, A. F.; Aleksandrova, G. A.
CORPORATE SOURCE: Ural. Politekh. Inst., Sverdlovsk, USSR
SOURCE: Khimiko-Farmatsevticheskii Zhurnal (1987), 21(7), 829-33
CODEN: KHFZAN; ISSN: 0023-1134
DOCUMENT TYPE: Journal
LANGUAGE: Russian
OTHER SOURCE(S): CASREACT 108:131765
GI



I

AB 4A-Derivs. of 2,3,4,4a,5,6,7,8-octahydro-6,8-dimethylpyrimido[5,4-e]triazene-3,5,7-trione (fervenulen-3-one) (I) were prepared via its reaction with indole, phenylhydrazine, o-phenylenediamines, and 1-phenyl-3-methyl-2-pyrazolin-5-one. The PhNHNH2 derivative was converted to Schiff bases with p-MeOC6H4CHO and 5-nitrofurfural. The phenylenediamines were converted to the corresponding benzimidazolethione by CS2.
IT 113458-65-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 113458-65-4 CAPLUS
CN 2-Furancarboxaldehyde, 5-nitro-, 2-[4-(3,4,5,6,7,8-hexahydro-6,8-dimethyl-3,5,7-trioxopyrimido[5,4-e]-1,2,4-triazin-4a(2H)-yl)phenyl]hydrazone (CA INDEX NAME)

PAGE 1-A



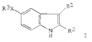
PAGE 2-A

OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

L14 ANSWER 27 OF 35 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1987:196452 CAPLUS
DOCUMENT NUMBER: 106:196452
ORIGINAL REFERENCE NO.: 106:31853a,31856a
TITLE: Heterocyclylindoles as cardiovascular agents
INVENTOR(S): Mertens, Alfred; Saal, Wolfgang; Friebe, Walter Gunnar; Mueller-Beckmann, Bernd; Sponer, Gisbert
PATENT ASSIGNEE(S): Boehringer Mannheim G.m.b.H., Fed. Rep. Ger.
SOURCE: Ger. Offen., 15 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
DE 3531658	A1	19870312	DE 1985-3531658		19850905
EP 223937	A1	19870603	EP 1986-112068		19860901
EP 223937	B1	19920318			
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE					
IL 79911	A	19910415	IL 1986-79911		19860901
AT 73797	T	19920415	AT 1986-112068		19860901
DK 8604190	A	19870306	DK 1986-4190		19860902
AU 8662166	A	19870312	AU 1986-62166		19860902
AU 572405	B2	19880505			
DD 258229	A5	19880713	DD 1986-294092		19860902
FI 8603564	A	19870306	FI 1986-3564		19860904
ZA 8606705	A	19870429	ZA 1986-6705		19860904
HU 41770	A2	19870528	HU 1986-3828		19860904
HU 197000	B	19890228			
US 4851406	A	19890725	US 1986-904092		19860904
JP 62056486	A	19870312	JP 1986-208118		19860905
ES 2001936	A6	19880701	ES 1986-1651		19860905
PRIORITY APPLN. INFO.:			DE 1985-3531658	A	19850905
			EP 1986-112068	A	19860901

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): CASREACT 106:196452; MARPAT 106:196452
GI



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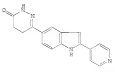
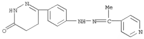


II

AB The title compds. [I; R1 = H, alkyl, alkenyl, cycloalkyl, cycloalkenyl, CO2H, cyano, alkylcarbonyl, alkoxycarbonyl, (di)(alkyl)aminocarbonyl, aryl; R2 = H, alkyl, trihalomethyl, cycloalkyl, cyano, CO2H, alkoxycarbonyl, alkylcarbonyl, (di)(alkyl)aminocarbonyl, (substituted) heterocyclyl, Ph; R3 = (substituted) heterocyclyl; X = bond, C1-4

alkylene, CH:CH] were prepd. as cardiovascular agents (no data). 6-(4-Aminophenyl)-2,3,4,5-tetrahydro-3-pyridazinone was diazotized and the resulting diazonium salt was reduced to the corresponding hydrazine with urea. 4-Acetylpyridine was added to the reaction mixt. and the resulting hydrazone was isolated and heated at 120° in polyphosphoric acid to give pyridylpyridazinylindole II.
IT 108258-88-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and Fischer indole synthesis reaction of)
RN 108258-88-4 CAPLUS
CN 3(2H)-Pyridazinone, 4,5-dihydro-6-[4-[2-[1-(4-pyridinyl)ethylidene]hydrazinyl]phenyl]- (CA INDEX NAME)

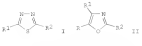


OS.CITING REF COUNT: 17 THERE ARE 17 CAPLUS RECORDS THAT CITE THIS RECORD (17 CITINGS)

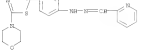
L14 ANSWER 28 OF 35 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1994:524891 CAPLUS
DOCUMENT NUMBER: 101:124891
ORIGINAL REFERENCE NO.: 101:19939a,19942a
TITLE: Agent for chemotherapy of crop viruses
INVENTOR(S): Schuster, Gottfried; Kochmann, Werner; Kramer, Wilfried; Steinke, Walter; Hoesinglees, Walter; Winter, Harald; Steinke, Ulrich; Kaser, Gerhard; Hansch, Christoph; et al.
PATENT ASSIGNEE(S): Ger. Dem. Rep.
SOURCE: German (East); 26 pp.
CODEN: GEXXA8
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DD 160762	A3	19840707	DD 1983-228754	19810331
PRIORITY APPLN. INFO.:			DD 1981-228754	19810331

GI



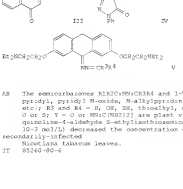
AB The plant virucidal activity of 2,4-dioxohexahydro-1,3,5-triazine [27032-78-6] as synergized by a thiadiazole I [R1 and R2 = NH2, alkylamino, arylamino, etc.), and/or an oxazole II (R = alkyl, Ph, or hydroxyalkyl; R1 = alkyl, Ph, CN, or COOR; R2 = NH2, guanyl, etc.) and/or a hydrazone R1R2C:NN:CR3R4 [R1 and R2 = H, SH, CN, heterocyclic radical, etc., R3 and R4 = H, SH, CN, etc.). Thus, the inhibitory effect of 2,4-dioxohexahydro-1,3,5-triazine on potato virus X, in secondarily-inverted Nicotiana tabacum leaves, was enhanced by pyridin-3-aldehyde S-ethylisothiosemiarbazone [66049-17-0].
IT 85240-80-6
RL: BIOL (Biological study)
(plant-virucidal activity of dioxohexahydrotriazine enhancement by)
RN 85240-80-6 CAPLUS
CN 2-Pyridinecarboxaldehyde, 2-[4-[5-(4-morpholinyl)-1,3,4-thiadiazol-2-yl]phenyl]hydrazone (CA INDEX NAME)



L14 ANSWER 29 OF 35 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1983:174855 CAPLUS
DOCUMENT NUMBER: 98:174855
ORIGINAL REFERENCE NO.: 98:28503a,28504a
TITLE: Agent for chemotherapy against crop plant viruses
INVENTOR(S): Schuster, Gottfried; Heinisch, Lothar; Willitzer, Horst; Schulze, Werner; Ullerich, Hermann
PATENT ASSIGNEE(S): Ger. Dem. Rep.
SOURCE: Ger. (East), 38 pp.
CODEN: GEXXA8
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DD 157662	A1	19821201	DD 1981-228757	19810331
PRIORITY APPLN. INFO.:			DD 1981-228757	19810331

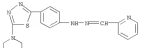
GI



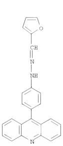
AB The semicarbazones R1R2C:NN:CR3R4 and 1-V [R1 and R2 = H, SH, CN, Me, pyridyl, pyridyl N-oxide, N-alkylpyridinium, quinolyl, quinolyl N-oxide, etc.; R3 and R4 = H, OH, SH, thioalkyl, morpholino, etc.; R5 = alkyl; X = O or S; Y = O or NH1C[NH2]2] are plant virucides. Thus, quinoline-4-aldehyde S-ethylisothiosemicarbazone [66049-04-5] [2 × 10-2 mol/L] decreased the concentration of potato X virus in secondarily-infected Nicotiana tabacum leaves.
IT 85240-80-6

L14 ANSWER 28 OF 35 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)

L14 ANSWER 29 OF 35 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study) (virucide, for plants)
RN 85240-80-6 CAPLUS
CN 2-Pyridinecarboxaldehyde, 2-[4-[5-(4-morpholinyl)-1,3,4-thiadiazol-2-yl]phenyl]hydrazone (CA INDEX NAME)



L14 ANSWER 30 OF 35 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1975:428073 CAPLUS
DOCUMENT NUMBER: 83:28073
ORIGINAL REFERENCE NO.: 83:4489a,4492a
TITLE: Reaction of acridinium salts with phenylhydrazones and phenylhydrazides
AUTHOR(S): Chupakhin, O. N.; Postovskii, I. Ya.; Rusinov, V. L.; Charushin, V. N.
CORPORATE SOURCE: Ural. Politekh. Inst. im. Kirova, Sverdlovsk, USSR
SOURCE: Khimiya Geterotsiklicheskikh Soedinenii (1975), (3), 387-91
CODEN: KGSSAQ; ISSN: 0132-6244
DOCUMENT TYPE: Journal
LANGUAGE: Russian
OTHER SOURCE(S): CASREACT 83:28073
GI For diagram(s), see printed CA Issue.
AB Acridinium salts [I, R = H, Me, R1 = Ph, p-ClC6H4, p-BrC6H4, 3,4-(MeO)2C6H3, X = Cl, I] were obtained in 30-82% yields by heating RR1C:NNHPh with an acridinium salt in DMF 2 hr at 120°. Addnl. obtained were 46-60% of the free bases [II, R = H, Me, R1 = Ph, p-ClC6H4, p-Me2NC6H4, 3,4-(MeO)2C6H3, 3,4-(HO)(MeO)C6H3, 2-furyl].
IT 55826-99-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 55826-99-8 CAPLUS
CN 2-Furancarboxaldehyde, 2-[4-(9-acridinyl)phenyl]hydrazone (CA INDEX NAME)

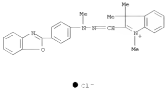


OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD
(2 CITINGS)

L14 ANSWER 31 OF 35 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1975:5369 CAPLUS
DOCUMENT NUMBER: 82:5369
ORIGINAL REFERENCE NO.: 82:913a,916a
TITLE: Cationic dyes
INVENTOR(S): Ohkawa, Masaaki; Konishi, Seizo
PATENT ASSIGNEE(S): Sumitomo Chemical Co., Ltd.
SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
JP 49044029	A	19740425	JP 1972-88261		19720901
JP 51007567	B	19760309			
PRIORITY APPLN. INFO.:			JP 1972-88261	A	19720901

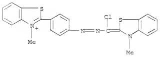
GI For diagram(s), see printed CA Issue.
AB Cationic dyes (I; R1, R4 = H, alkyl, halogen, alkoxy; R2 = alkyl, cycloalkyl, aralkyl, allyl; R3 = alkyl, X = O, NR3, Y = anion), dyeing polyacrylonitrile, acid-modified polyamides, and polyester fibers bright yellow shades, were prepared by coupling diazotized II (X, R4 = same as I) with II (R1, R2 = same as I), and subsequent alkylation of the coupled compds. Thus, diazotized 2-(4-aminophenyl)benzoazole was mixed dropwise with 1,3,3-trimethyl-2-methyleneindoline, the azo compound methylated with Me2SO4, and salted with NaCl to give cationic dye I(R1 = R4 = H, R2 = R3 = Me, X = O, y = Cl) [52820-24-3].
IT 52820-24-3P
RL: IMF (Industrial manufacture); PREP (Preparation)
(preparation of)
RN 52820-24-3 CAPLUS
CN 3H-Indolium, 2-[[2-[4-(2-benzoxazolyl)phenyl]-2-methylhydrazinylidene]methyl]-1,3,3-trimethyl-, chloride (1:1) (CA INDEX NAME)



L14 ANSWER 32 OF 35 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1972:87119 CAPLUS
DOCUMENT NUMBER: 76:87119
ORIGINAL REFERENCE NO.: 76:14021a,14024a
TITLE: Cyanine dyes based on dichlorides of o- and p-carboxyphenylazochloroacetic acids
AUTHOR(S): Lozinskii, M. O.; Kukota, S. N.; Pel'kis, P. S.
CORPORATE SOURCE: Inst. Org. Khim., Kiev, USSR
SOURCE: Khimiya Geterotsiklicheskikh Soedinenii (1971), 7(8), 1048-9
CODEN: KGSSAQ; ISSN: 0132-6244
DOCUMENT TYPE: Journal
LANGUAGE: Russian
AB O-HSC6H4NHMe reacted with p- and o-ClCOC6H4NHN:CClCOCl in CHCl3-C6H6 to give 84.5% green diazacyanine dye (I) [34039-27-5] and 27.4% light brown diazacyanine dye (II) [34039-28-6], resp., after treatment with EtN in C6H6.
IT 34039-27-5P 35336-51-7P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 34039-27-5 CAPLUS
CN Benzothiazolium, 2-[4-[2-[chloro(3-methyl-2(3H)-benzothiazolylidene)methyl]diazenyl]phenyl]-3-methyl-, perchlorate (1:1) (CA INDEX NAME)

CM 1

CRN 47655-56-1
CMF C23 H18 Cl N4 S2



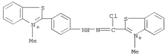
CM 2

CRN 14797-73-0
CMF Cl O4

RN 35336-51-7 CAPLUS
CN Benzothiazolium, 2-[4-[[chloro(3-methylbenzothiazolium-2-yl)methylene]hydrazino]phenyl]-3-methyl-, diperchlorate (9CI) (CA INDEX NAME)

L14 ANSWER 32 OF 35 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)
CM 1

CRN 47655-55-0
CMF C23 H19 Cl N4 S2



CM 2

CRN 14797-73-0
CMF Cl O4

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD
(1 CITINGS)

ACCESSION NUMBER: 1970:467645 CAPLUS
DOCUMENT NUMBER: 73:67645
ORIGINAL REFERENCE NO.: 73:11069a
TITLE: Azonethine dyes. I
AUTHOR(S): Tripathy, P. B.; Jana, E.
CORPORATE SOURCE: Mayurbhanj Chem. Lab., Ravenshaw Coll., Cuttack, India
SOURCE: Journal of the Institution of Chemists (India) (1970), 42(Pt. 2), 65-9
CODEN: JOJCA7; ISSN: 0020-3254
DOCUMENT TYPE: Journal
LANGUAGE: English

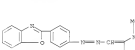
GI For diagram(s), see printed CA Issue.

AB The title compds. (I) in which X = NH or O, n = 0 or 1, and the group containing R is a 2-methylbenzothiazole (II), quinaldine (III), α-picoline (IV), or lepidine (V) residue, were prepared. Thus, a mixture of 12.8 g o-C6H4(NH2)2, 3.7 g p-ZnC6H4CO2H, and 2.1 g HCO2 heated for 2 hr at 110° and for 2 hr at 140-50° gave 80% 2-(p-aminophenyl)benzimidazole (VI), m. 192°. Other amines prepared were 2-(p-aminophenyl)benzoxazole (VII), 2-(4-aminoaryl)benzimidazole (VIII) [from 1-acetyl-2-(4-nitroaryl)benzimidazole via 2-(4-nitroaryl)benzimidazole), and 2-(4-aminoaryl)benzoxazole (IX). I prepared were (diazotized amine, quaternized coupling component, λmax. in nm in MeOH-NaOH, m.p., and % yield given): VII, II, 525, 230° (decomposition), 60; VI, III, 530, 192° (decomposition), 55; VI, IV, 540, 302° (decomposition), 45; VI, V, 570, 215° (decomposition), 45; VII, II, 500, 250°, 65; VII, III, 510, 240° (decomposition), 55; VII, IV, 570, 210° (decomposition), 55; VII, V, 560, 230° (decomposition), 56; VIII, III, 500, 195° (decomposition), 50; VIII, III, 520, 180° (decomposition), 55; VIII, IV, 560, 250°, 45; VIII, V, 570, 192° (decomposition), 45; IX, II, 500, 250°, 45; IX, III, 500, 190° (decomposition), 45; IX, IV, 560, 250°, 40; and IX, V, 590, 192° (decomposition), 45.

IT 28940-49-0P 28940-51-4P 28940-52-5P
28940-53-6P 28940-54-7P 28940-55-8P
28940-56-9P 28940-57-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 28940-49-0 CAPLUS
CN Benzothiazole, 2-[[2-[4-(1H-benzimidazol-2-yl)phenyl]diazenyl]methylene]-2,3-dihydro-3-methyl- (CA INDEX NAME)

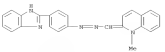
RN 28940-51-4 CAPLUS
CN Quinoline, 2-[[2-[4-(1H-benzimidazol-2-yl)phenyl]diazenyl]methylene]-1,2-dihydro-1-methyl- (CA INDEX NAME)



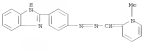
RN 28940-55-8 CAPLUS
CN Quinoline, 2-[[4-[4-(2-benzoxazolyl)phenyl]diazenyl]methylene]-1,2-dihydro-1-methyl- (CA INDEX NAME)

RN 28940-56-9 CAPLUS
CN Benzoxazole, 2-[4-[2-[1-methyl-2(1H)-pyridinylidene]methyl]diazenyl]phenyl]- (CA INDEX NAME)

RN 28940-57-0 CAPLUS
CN Quinoline, 4-[[4-[4-(2-benzoxazolyl)phenyl]diazenyl]methylene]-1,4-dihydro-1-methyl- (CA INDEX NAME)



RN 28940-52-5 CAPLUS
CN 1H-Benzimidazole, 2-[4-[2-[1-methyl-2(1H)-pyridinylidene)methyl]diazenyl]phenyl]- (CA INDEX NAME)

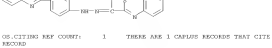


RN 28940-53-6 CAPLUS
CN Quinoline, 4-[[2-[4-(2H-benzimidazol-2-yl)phenyl]diazenyl]methylene]-1,4-dihydro-1-methyl- (CA INDEX NAME)

RN 28940-54-7 CAPLUS
CN Benzoxazole, 2-[4-[2-[(3-methyl-2(3H)-benzothiazolylidene)methyl]diazenyl]phenyl]- (CA INDEX NAME)

L14 ANSWER 34 OF 35 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1964:27482 CAPLUS
DOCUMENT NUMBER: 64:27482
ORIGINAL REFERENCE NO.: 64:5063e-h
TITLE: Reactions of condensation and cyclization of arylazochloroacetic acids. III. Condensation of chlorides of arylazochloroacetic acids with o-aminophenylmercaptan, N-alkyl-o-aminophenylmercaptan, and zinc salt of o-anilinoacetophenol
AUTHOR(S): Lozinskii, M. O.; Pel'kis, P. S.
CORPORATE SOURCE: Inst. Org. Chem., Kiev
SOURCE: Zhurnal Organicheskoi Khimii (1965), 1(10), 1793-9
CODEN: ZORKAE; ISSN: 0514-7492
DOCUMENT TYPE: Journal
LANGUAGE: Russian
GI For diagram(s), see printed CA Issue.
AB cf. CA 64, 4974e. o-RNHC6H4SH and RC6H4NHN:CClCOCl (Ia) in C6H6 gave 23-31% I (R shown): p-Cl, m. 170-3°, o-MeO, m. 153-4°; p-Me, m. 165-7°; p-Cl, m. 144-5°; o-O2N, m. 215-16.5°; p-Br, m. 179-82°. The filtrates from these gave some o-C6H4(SCOCCl:NRC6H4NH)NHCOCCl:NHC6H4R (R = p-Br, m. 252-3°). Similar reaction with p-ClOCC6H4NHN:CClCOCl gave 40% 4-(2-benzothiazolyl)benzhydrazone of 2-benzothiazolylcarbonyl chloride, m. 285-7°. o-RNHC6H4SH and RC6H4NHN:CClCOCl in C6H6 gave 54-99% 3-alkyl-2-[(arylhydrazono)chloromethyl]benzothiazolium chlorides (alkyl group and substituent on phenylhydrazono group shown resp.): Me, p-Br, m. 325-6°; Me, p-Cl, m. 321-2°; Me, o-MeO, m. 190-1.5°; Et, o-Cl, m. 177°. Ia and o-RINHC6H4SH in pyridine-C6H6 gave 2-(o-nitrophenylhydrazono)-2,3-dihydro-3-oxo-1,4-benzothiazines (substituent on nuclear N shown): H, m. 300-1°; Me, m. 168-9.5°; Et, m. 166-6.5°. Ia (R = o-MeO) in this reaction at 40-50° gave 45% bis[3,3'-bis(o-methoxybenzenesazothioloacetyl)-o-aminophenyl] disulfide, 1-(o-ZC6H4NHCOCCl:NNC6H4OMe-o)2, m. 209-11°. Similarly was prepared the bis(p-bromophenyl) analog, m. 191-2°. Im salt of o-RINHC6H4SeH in pyridine-CHCl3 and Ia (R = o-MeO) gave in 12 hr. refluxing 24.6% o-methoxyphenylhydrazone of 2-benzoselenazolecarbonyl chloride, m. 202.5-4°; similarly Ia (R = o-O2N) gave 2-(o-nitrophenylhydrazono)-2,3-dihydro-3-oxo-1,4-benzoselenazine, m. 280-2°. UV and ir spectra of the products are shown.
IT 4678-79-9, 2-Benzothiazolecarbonyl chloride, (p-2-benzothiazolylphenyl)hydrazone
RL: PREP (Preparation)
(preparation of)
RN 4678-79-9 CAPLUS
CN 2-Benzothiazolecarbohydrazonoyl chloride, N-[4-(2-benzothiazolyl)phenyl]-
(CA INDEX NAME)

L14 ANSWER 34 OF 35 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L14 ANSWER 35 OF 35 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1965:83150 CAPLUS
DOCUMENT NUMBER: 62:83150
ORIGINAL REFERENCE NO.: 62:14860e-h,14861a
TITLE: Azo group in the conjugation chain of cyanine dyes
AUTHOR(S): Kiprianov, A. I.; Verbovaya, T. M.
CORPORATE SOURCE: Inst. Org. Chem., Kiev
SOURCE: Zhurnal Organicheskoi Khimii (1965), 1(1), 13-20
CODEN: ZORKAE; ISSN: 0514-7492
DOCUMENT TYPE: Journal
LANGUAGE: Russian
GI For diagram(s), see printed CA Issue.
AB In a series of cyanine dyes containing azo groups, the N:N group tends to pass into the sNN: group which has the energetically more advantageous structure. 6-Nitrobenzothiazole-2-carboxaldehyde 2-benzothiazolylhydrazone (I) heated 5 min. with Me2SO4 at 100° and treated with NaCl04, gave 43% 3,3'-dimethyl-6'-nitro-8,9-diazathiacarbocyanine perchlorate (II), m. 215°. 2-Methylthio-6-nitrobenzothiazole methosulfate, m. 237° heated with HCONHNH2 (III) in EtOH gave 82% yellow formylhydrazone of 3-methyl-6-nitro-2-benzothiazolone, m. 269°, which refluxed with 2-benzothiazolecarboxaldehyde (IV) in AcOH-H2SO4 gave yellow 3-methyl-6-nitrobenzothiazolylmethylidene-2-hydrazone of IV, m. 297°, which with Me2SO4 at 100° gave 61% 3,3'-dimethyl-6-nitro-8,9-diazathiacarbocyanine Me sulfate, m. 280°. The 6-methoxy analog of I and Me2SO4 heated at 100° and treated with NaCl04 gave red 6'-methoxy analog of II, m. 242°. 2,5-H2NC6H3SH and X xanthate heated 1 hr. at 150-60° gave, after neutralization with AcOH, 80% 3-mercapto-6-methoxybenzothiazole, m. 206°, which with Me2SO4 in NaOH gave 75% 2-methylthio-6-methoxybenzothiazole, m. 55°, which with p-MeC6H4SO3Me at 130°, followed by III and Et3N in EtOH at reflux 0.5 hr., gave 66% colorless 3-methyl-6-methoxy-2-benzothiazolone formylhydrazone, m. 235°, which with IV in AcOH-H2SO4 refluxed 5 min. gave 83% yellow 3-methyl-6-methoxybenzothiazolin-2-ylidenehydrazone of IV, m. 178°, which with Me2SO4 at 100° gave, after treatment with NaCl04, 70% orange 6-methoxy analog of II, m. 285°. p-MeOC6H4SO2Cl in MeCN-Py treated with o-RINHC6H4SH in 1 hr. at 100° gave 100% No p-(2-benzothiazolyl)benzoate, m. 164° which refluxed with 20% KCl gave the free acid, m. 290°, which with SOCl2 gave the acid chloride, m. 198°. This hydrogenated over Pd-BaSO4 in xylene in the presence of quinoline-S to 2-(p-formylphenyl)benzothiazole (V), m. 196°; the Me perchlorate, m. 192° of this base refluxed in AcOH with 2-methyl-2-benzothiazolone hydrazone gave 82% orange 3-methyl-2-benzothiazolylmethylidenehydrazone of V, m. 284°. 2-(p-Aminophenyl)-benzothiazole and 1 mole Me2SO4 gave 79% yellow quaternary salt which, diazotized and coupled with 2-methylbenzothiazole methosulfate gave 89% red-brown VI, m. 290°. Absorption spectra of the dyes are reported.
IT 2442-14-0P, Benzothiazolium, 3-methyl-2-[4-[(3-methyl-2(3H)-benzothiazolylidene)methyl]azo]phenyl]-, perchlorate
RL: PREP (Preparation)
(preparation of)
RN 2442-14-0 CAPLUS
CN Benzothiazolium, 3-methyl-2-[4-[2-[3-methyl-2(3H)-benzothiazolylidene)methyl]diazenyl]phenyl]-, perchlorate (1:1) (CA INDEX NAME)

L14 ANSWER 35 OF 35 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)

CM 1

CRN 476731-66-3
CMF C23 H19 N4 S2

CM 2

CRN 14797-73-0
CMF Cl O4

```
=> FIL STNGUIDE
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                   211.20     690.16

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                       ENTRY    SESSION
CA SUBSCRIBER PRICE                                   -30.45     -33.06

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LAST RELOADED: Jul 22, 2011 (20110722/UP).

=> fil reg
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                     2.48     692.64

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CA SUBSCRIBER PRICE                                     0.00     -33.06

FILE 'REGISTRY' ENTERED AT 11:51:13 ON 26 JUL 2011
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```

chain nodes :
1 8 9 10
ring nodes :
2 3 4 5 6 7 11 12 13 14 15 16
chain bonds :
1-2 5-8 8-9 9-10 10-11
ring bonds :
2-3 2-7 3-4 4-5 5-6 6-7 11-12 11-16 12-13 13-14 14-15 15-16
exact/norm bonds :
1-2 2-3 2-7 3-4 4-5 5-6 5-8 6-7 8-9 9-10 10-11 11-12 11-16 12-13
13-14 14-15 15-16

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:CLASS 9:CLASS 10:CLASS
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom

L15 STRUCTURE UPLOADED

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=> s l15 full
FULL SEARCH INITIATED 11:51:51 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -   191133 TO ITERATE

100.0% PROCESSED   191133 ITERATIONS                                297 ANSWERS
SEARCH TIME: 00.00.03

L17         297 SEA SSS FUL L15

=> s l17 and caplus/lc
      75279646 CAPLUS/LC
L18         258 L17 AND CAPLUS/LC

=> s l17 not l18
L19          39 L17 NOT L18

=> d l19 1-39
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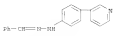
L19 ANSWER 1 OF 39 REGISTRY COPYRIGHT 2011 ACS on STN
RN 1260704-23-8 REGISTRY
ED Entered STN: 27 Jan 2011
CN Benzaldehyde, 2-[4-(3-pyridinyl)phenyl]hydrazone (CA INDEX NAME)
MF C18 H15 N3
SR CA



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L19 ANSWER 2 OF 39 REGISTRY COPYRIGHT 2011 ACS on STN
RN 1260702-17-7 REGISTRY
ED Entered STN: 27 Jan 2011
CN Benzaldehyde, 2-[4-(1H-pyrrol-1-yl)phenyl]hydrazone (CA INDEX NAME)
MF C17 H15 N3
SR CA

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L19 ANSWER 3 OF 39 REGISTRY COPYRIGHT 2011 ACS on STN
RN 1135239-83-6 REGISTRY
ED Entered STN: 16 Apr 2009
CN Benzaldehyde, 4-(dimethylamino)-, 2-(4-(1H-benzimidazol-2-yl)phenyl)hydrazone, (CIE)- (CA INDEX NAME)
FS STEREOSEARCH
MF C22 H21 N5
SR Other Sources
Database: Developmental Therapeutics Program (National Cancer Institute)

Double bond geometry as shown.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

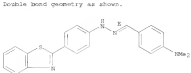
L19 ANSWER 4 OF 39 REGISTRY COPYRIGHT 2011 ACS on STN
RN 1135239-69-8 REGISTRY
ED Entered STN: 16 Apr 2009
CN Benzaldehyde, 4-(dimethylamino)-, 2-[4-(2-benzoxazolyl)phenyl]hydrazone, (CIE)- (CA INDEX NAME)
FS STEREOSEARCH
MF C22 H20 N4 O
SR Other Sources
Database: Developmental Therapeutics Program (National Cancer Institute)

Double bond geometry as shown.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L19 ANSWER 5 OF 39 REGISTRY COPYRIGHT 2011 ACS on STN
RN 1135239-46-9 REGISTRY
ED Entered STN: 16 Apr 2009
CN Benzaldehyde, 4-(dimethylamino)-,
2-[4-(2-benzothiazolylhydrazono)-
[C(E)]- (CA INDEX NAME)
FS STEREOSEARCH
MF C22 H22 N4 S
SR Other Sources
Database: Developmental Therapeutics Program (National Cancer Institute)

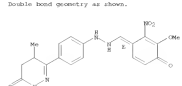
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L19 ANSWER 6 OF 39 REGISTRY COPYRIGHT 2011 ACS on STN
RN 1028281-42-6 REGISTRY
ED Entered STN: 15 Jun 2008
CN 3(2H)-Pyridazinone, 4,5-dihydro-6-[4-[2-[(E)-(3-methoxy-2-nitro-4-oxo-2,5-cyclohexadien-1-ylidene)methyl]hydrazinyl]phenyl]-5-methyl- (CA INDEX NAME)
FS STEREOSEARCH
MF C19 H19 N5 O5
SR Other Sources
Database: ChemSpider (ChemDoo, Inc.)

Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L19 ANSWER 7 OF 39 REGISTRY COPYRIGHT 2011 ACS on STN
RN 1027620-38-7 REGISTRY
ED Entered STN: 10 Jun 2009
CN 3(2H)-Pyridazinone, 4,5-dihydro-6-[4-[2-[(E)-(2-hydroxy-4-oxo-2,5-cyclohexadien-1-ylidene)methyl]hydrazinyl]phenyl]-5-methyl- (CA INDEX NAME)
FS STEREOSEARCH
MF C18 H18 N4 O3
SR Other Sources
Database: ChemSpider (ChemDoo, Inc.)

Double bond geometry as shown.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

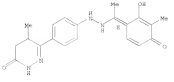
L19 ANSWER 8 OF 39 REGISTRY COPYRIGHT 2011 ACS on STN
RN 1026741-07-0 REGISTRY
ED Entered STN: 09 Jun 2008
CN 3(2H)-Pyridazinone, 4,5-dihydro-6-[4-[2-[(2E)-1-(2-hydroxy-4-oxo-2,5-cyclohexadien-1-ylidene)ethyl]hydrazinyl]phenyl]-5-methyl- (CA INDEX NAME)
FS STEREOSEARCH
MF C19 H20 N4 O3
SR Other Sources
Database: ChemSpider (ChemDoo, Inc.)

Double bond geometry as shown.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L19 ANSWER 9 OF 39 REGISTRY COPYRIGHT 2011 ACS on STN
RN 1026178-17-7 REGISTRY
ED Entered STN: 09 Jun 2008
CN 3(2H)-Pyridazinone,
4,5-dihydro-6-[4-[2-[(2E)-3-(2-hydroxy-3-methyl-4-oxo-
2,5-cyclohexadien-1-ylidene)ethyl]hydrazinyl]phenyl]-5-methyl- (CA INDEX NAME)
FS STEREOSEARCH
MF C20 H22 N4 O3
SR Other Sources
Database: ChemSpider (ChemZoo, Inc.)

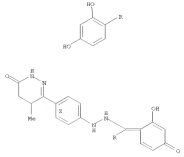
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

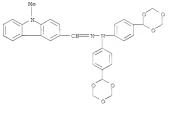
L19 ANSWER 10 OF 39 REGISTRY COPYRIGHT 2011 ACS on STN
RN 1026308-35-9 REGISTRY
ED Entered STN: 08 Jun 2008
CN INDEX NAME NOT YET ASSIGNED
FS STEREOSEARCH
MF C24 H22 N4 O5
SR Other Sources
Database: ChemSpider (ChemZoo, Inc.)

Double bond geometry as shown.



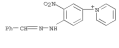
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L19 ANSWER 11 OF 39 REGISTRY COPYRIGHT 2011 ACS on STN
RN 845892-66-2 REGISTRY
ED Entered STN: 18 Mar 2005
CN 9H-Carbazole-3-carboxaldehyde, 9-methyl-,
2,2-bis[4-(1,3,5-trioxan-2-yl)phenyl]hydrazone (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 9H-Carbazole-3-carboxaldehyde, 9-methyl-,
bis[4-(1,3,5-trioxan-2-yl)phenyl]hydrazone (9CI)
MF C32 H29 N3 O6
CI COM
SR CA



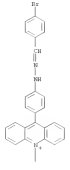
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L19 ANSWER 12 OF 39 REGISTRY COPYRIGHT 2011 ACS on STN
RN 791524-83-9 REGISTRY
ED Entered STN: 01 Dec 2004
CN Pyridinium, 1-[3-nitro-4-[2-(phenylmethylene)hydrazinyl]phenyl]- (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Pyridinium, 1-[3-nitro-4-[(phenylmethylene)hydrazino]phenyl]- (9CI)
MF C18 H15 N4 O2
CI COM
SR CA

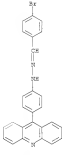


L19 ANSWER 13 OF 39 REGISTRY COPYRIGHT 2011 ACS on STN
RN 793764-77-2 REGISTRY
ED Entered STN: 25 Nov 2004
CN Acridinium, 10-methyl-9-[4-[2-(phenylmethylene)hydrazinyl]phenyl]- (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Acridinium, 10-methyl-9-[4-[(phenylmethylene)hydrazino]phenyl]- (9CI)
MF C27 H22 N3
CI COM
SR CA

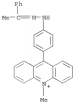
L19 ANSWER 14 OF 39 REGISTRY COPYRIGHT 2011 ACS on STN
RN 762182-94-5 REGISTRY
ED Entered STN: 13 Oct 2004
CN Acridinium, 9-[4-[2-[(4-bromophenyl)methylene]hydrazinyl]phenyl]-10-methyl- (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Acridinium, 9-[4-[[(4-bromophenyl)methylene]hydrazino]phenyl]-10-methyl- (9CI)
MF C27 H21 Br N3
CI COM
SR CA



L19 ANSWER 15 OF 39 REGISTRY COPYRIGHT 2011 ACS on STN
RN 752143-00-9 REGISTRY
ED Entered STN: 28 Sep 2004
CN Benzaldehyde, 4-bromo-, 2-(4-9-acridinyl)phenyl]hydrazone (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Benzaldehyde, 4-bromo-, [4-(9-acridinyl)phenyl]hydrazone (9CI)
MF C26 H18 Br N3
CI COM
SR CA

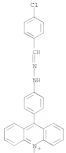


L19 ANSWER 16 OF 39 REGISTRY COPYRIGHT 2011 ACS on STN
RN 736082-54-5 REGISTRY
ED Entered STN: 30 Aug 2004
CN Acridinium, 10-methyl-9-[4-[2-[1-phenylethylidene)hydrazinyl]phenyl]- (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Acridinium, 10-methyl-9-[4-[(1-phenylethylidene)hydrazino]phenyl]- (9CI)
MF C28 H24 N3
CI COM
SR CA



L19 ANSWER 17 OF 39 REGISTRY COPYRIGHT 2011 ACS on STN
RN 708270-34-1 REGISTRY
ED Entered STN: 14 Jul 2004
CN Acridinium, 9-[4-[2-[(4-chlorophenyl)methylene]hydrazinyl]phenyl]-10-methyl- (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Acridinium, 9-[4-[[(4-chlorophenyl)methylene]hydrazino]phenyl]-10-methyl- (9CI)
MF C27 H21 Cl N3
CI COM
SR CA

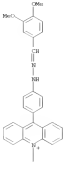
PAGE 1-A



PAGE 2-A

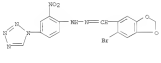
L19 ANSWER 18 OF 39 REGISTRY COPYRIGHT 2011 ACS on STN
RN 704862-81-7 REGISTRY
ED Entered STN: 05 Jul 2004
CN Acridinium, 9-[4-[2-[(3,4-dimethoxyphenyl)methylene]hydrazinyl]phenyl]-10-methyl- (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Acridinium, 9-[4-[[(3,4-dimethoxyphenyl)methylene]hydrazino]phenyl]-10-methyl- (9CI)
MF C29 H26 N3 O2
CI COM
SR CA

PAGE 1-A



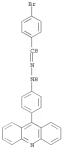
PAGE 2-A

L19 ANSWER 19 OF 39 REGISTRY COPYRIGHT 2011 ACS on STN
RN 392704-61-9 REGISTRY
ED Entered STN: 15 Feb 2002
CN 1,3-Benzodioxole-5-carboxaldehyde, 6-bromo-, 2-[2-nitro-4-[18-tetrazol-1-yl]phenyl]hydrazone (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 1,3-Benzodioxole-5-carboxaldehyde, 6-bromo-, [2-nitro-4-[18-tetrazol-1-yl]phenyl]hydrazone (9CI)
MF C15 H10 Br N7 O4
SR Chemical Library
Supplier: Lake7rat
LC STN Files: CHEMCATS

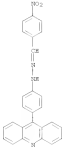


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L19 ANSWER 20 OF 39 REGISTRY COPYRIGHT 2011 ACS on STN
RN 339540-70-4 REGISTRY
ED Entered STN: 06 Jun 2001
CN Benzaldehyde, 4-bromo-, 2-[4-(9-acridinyl)phenyl]hydrazone, hydrobromide (1:1) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Benzaldehyde, 4-bromo-, [4-(9-acridinyl)phenyl]hydrazone, monohydrobromide (9CI)
MF C26 H18 Br N3 . Br H
SR Reaction Database
LC STN Files: CASREACT
CRN (752145-00-9)



L19 ANSWER 21 OF 39 REGISTRY COPYRIGHT 2011 ACS on STN
RN 357958-43-7 REGISTRY
ED Entered STN: 26 May 2001
CN Benzaldehyde, 4-nitro-, 2-[4-[9-acridinyl]phenyl]hydrazone (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Benzaldehyde, 4-nitro-, [4-[9-acridinyl]phenyl]hydrazone (9CI)
MF C26 H18 N4 O2
SR Fraction Database
LC STN Files: CASREACT



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L19 ANSWER 22 OF 39 REGISTRY COPYRIGHT 2011 ACS on STN
RN 253965-16-6 REGISTRY
ED Entered STN: 31 Jan 2000
CN Benzaldehyde, 4-chloro-, 2-[4-[5-oxazolyl]phenyl]hydrazone (CA INDEX NAME)
OTHER CA INDEX NAMES:
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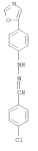
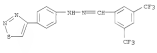
MF C16 H12 Cl N3 O
SR CAS Client Services
LC STN Files: CHEMCATS



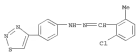
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L19 ANSWER 23 OF 39 REGISTRY COPYRIGHT 2011 ACS on STN
RN 253664-44-7 REGISTRY
ED Entered STN: 27 Jan 2000
CN Benzaldehyde, 3,5-bis(trifluoromethyl)-, 2-[4-[1,2,3-thiadiazol-4-yl]phenyl]hydrazone (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Benzaldehyde, 3,5-bis(trifluoromethyl)-, [4-[1,2,3-thiadiazol-4-yl]phenyl]hydrazone (9CI)
MF C17 H10 F6 N4 S
SR CAS Client Services
LC STN Files: CHEMCATS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L19 ANSWER 24 OF 39 REGISTRY COPYRIGHT 2011 ACS on STN
RN 253586-78-6 REGISTRY
ED Entered STN: 26 Jan 2000
CN Benzaldehyde, 2-chloro-6-methyl-, 2-[4-[1,2,3-thiadiazol-4-yl]phenyl]hydrazone (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Benzaldehyde, 2-chloro-6-methyl-, [4-[1,2,3-thiadiazol-4-yl]phenyl]hydrazone (9CI)
MF C16 H13 Cl N4 S
SR CAS Client Services
LC STN Files: CHEMCATS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L19 ANSWER 25 OF 39 REGISTRY COPYRIGHT 2011 ACS on STN
RN 253586-77-5 REGISTRY
ED Entered STN: 26 Jan 2000
CN Benzaldehyde, 3-chloro-4-fluoro-, 2-[4-(1,2,3-thiadiazol-4-yl)phenyl]hydrazone (CA INDEX NAME)
OTHER CA INDEX NAMES:
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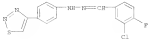
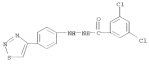
MF C15 H10 Cl F N4 S
SR CAS Client Services



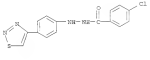
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L19 ANSWER 26 OF 39 REGISTRY COPYRIGHT 2011 ACS on STN
RN 253586-73-1 REGISTRY
ED Entered STN: 26 Jan 2000
CN Benzoic acid, 3,5-dichloro-, 2-[4-(1,2,3-thiadiazol-4-yl)phenyl]hydrazide (CA INDEX NAME)
MF C15 H10 Cl2 N4 O S
SR CAS Client Services
LC STN Files: CHEMCATS



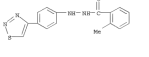
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L19 ANSWER 27 OF 39 REGISTRY COPYRIGHT 2011 ACS on STN
RN 253586-72-0 REGISTRY
ED Entered STN: 26 Jan 2000
CN Benzoic acid, 4-chloro-, 2-[4-(1,2,3-thiadiazol-4-yl)phenyl]hydrazide (CA INDEX NAME)
MF C15 H11 Cl N4 O S
SR CAS Client Services
LC STN Files: CHEMCATS



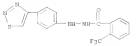
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L19 ANSWER 28 OF 39 REGISTRY COPYRIGHT 2011 ACS on STN
RN 253586-71-9 REGISTRY
ED Entered STN: 26 Jan 2000
CN Benzoic acid, 2-methyl-, 2-[4-(1,2,3-thiadiazol-4-yl)phenyl]hydrazide (CA INDEX NAME)
MF C16 H14 N4 O S
SR CAS Client Services
LC STN Files: CHEMCATS



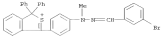
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L19 ANSWER 29 OF 39 REGISTRY COPYRIGHT 2011 ACS on STN
RN 253366-78-8 REGISTRY
ED Entered STN: 26 Jan 2000
CN Benzoic acid, 2-(trifluoromethyl)-, 2-[4-[5,2,3-thiadiazol-4-yl]phenyl]hydrazide (CA INDEX NAME)
MF C16 H11 F3 N4 O S
SR CAS Client Services
LC STN Files: CHEMCATS

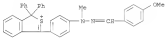


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

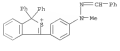
L19 ANSWER 30 OF 39 REGISTRY COPYRIGHT 2011 ACS on STN
RN 172993-65-2 REGISTRY
ED Entered STN: 08 Mar 1996
CN 1H-Benzo[c]thiolium, 3-[4-[[(3-bromophenyl)methylene]methylhydrazino]phenyl]-1,1-diphenyl- (9CI) (CA INDEX NAME)
MF C34 H26 Br N2 S
CI COM
SR CA



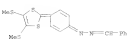
L19 ANSWER 31 OF 39 REGISTRY COPYRIGHT 2011 ACS on STN
RN 173993-63-0 REGISTRY
ED Entered STN: 08 Mar 1996
CN 1H-Benzo[c]thiolium, 3-[4-[[(4-methoxyphenyl)methylene]methylhydrazino]phenyl]-1,1-diphenyl- (9CI) (CA INDEX NAME)
MF C35 H29 N2 O S
CI COM
SR CA



L19 ANSWER 32 OF 39 REGISTRY COPYRIGHT 2011 ACS on STN
RN 173993-61-8 REGISTRY
ED Entered STN: 08 Mar 1996
CN 1H-Benzo[c]thiolium, 3-[4-(methyl(phenylmethylene)hydrazino)phenyl]-1,1-diphenyl- (9CI) (CA INDEX NAME)
MF C34 H27 N2 S
CI COM
SR CA



L19 ANSWER 33 OF 39 REGISTRY COPYRIGHT 2011 ACS on STN
RN 100983-82-2 REGISTRY
ED Entered STN: 22 Mar 1986
CN Benzaldehyde, 2-[4-[4,5-bis(methylthio)-1,3-dithiol-2-ylidene]-2,5-cyclohexadien-1-ylidene]hydrazone (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 1,3-Dithiole, benzaldehyde deriv.
CN Benzaldehyde, [4-[4,5-bis(methylthio)-1,3-dithiol-2-ylidene]-2,5-cyclohexadien-1-ylidene]hydrazone (9CI)
MF C18 H16 N2 S4
CI COM
SR CA

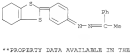


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L19 ANSWER 34 OF 39 REGISTRY COPYRIGHT 2011 ACS on STN
RN 100983-80-0 REGISTRY
ED Entered STN: 22 Mar 1986
CN Benzaldehyde, 2-[4-(1,3-dithiol-2-ylidene)-2,5-cyclohexadien-1-ylidene]hydrazone (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 1,3-Dithiole, benzaldehyde deriv.
CN Benzaldehyde, [4-(1,3-dithiol-2-ylidene)-2,5-cyclohexadien-1-ylidene]hydrazone (9CI)
MF C16 H12 N2 S2
CI COM
SR CA

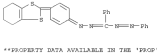
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L19 ANSWER 35 OF 39 REGISTRY COPYRIGHT 2011 ACS on STN
RN 100983-76-4 REGISTRY
ED Entered STN: 22 Mar 1986
CN 2,5-Cyclohexadien-1-one, 4-[4,5,6,7-tetrahydro-1,3-benzodithiol-2-ylidene]- , 2-(1-phenylethylidene)hydrazone (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 1,3-Benzodithiole, 2,5-cyclohexadien-1-one deriv.
CN 2,5-Cyclohexadien-1-one, 4-[4,5,6,7-tetrahydro-1,3-benzodithiol-2-ylidene]- , (1-phenylethylidene)hydrazone (9CI)
MF C21 H20 N2 S2
CI COM
SR CA



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L19 ANSWER 36 OF 39 REGISTRY COPYRIGHT 2011 ACS on STN
RN 100983-74-2 REGISTRY
ED Entered STN: 22 Mar 1986
CN 2,5-Cyclohexadien-1-one, 4-[4,5,6,7-tetrahydro-1,3-benzodithiol-2-ylidene]- , 2-[phenyl(2-phenylidiazenyl)methylene]hydrazone (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 1,3-Benzodithiole, 2,5-cyclohexadien-1-one deriv.
CN 2,5-Cyclohexadien-1-one, 4-[4,5,6,7-tetrahydro-1,3-benzodithiol-2-ylidene]- , [phenyl(phenylazo)methylene]hydrazone (9CI)
MF C26 H22 N4 S2
CI COM
SR CA



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L19 ANSWER 37 OF 39 REGISTRY COPYRIGHT 2011 ACS on STN
RN 100983-78-8 REGISTRY
ED Entered STN: 22 Mar 1986
CN Benzaldehyde, 2-[4-(4,5,6,7-tetrahydro-1,3-benzodithiol-2-ylidene)-2,5-cyclohexadien-1-ylidene]hydrazone (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 1,3-Benzodithiole, benzaldehyde deriv.
CN Benzaldehyde, [4-(4,5,6,7-tetrahydro-1,3-benzodithiol-2-ylidene)-2,5-cyclohexadien-1-ylidene]hydrazone (9CI)
MF C20 H18 N2 S2
CI COM
SR CA

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L19 ANSWER 38 OF 39 REGISTRY COPYRIGHT 2011 ACS on STN
RN 79913-16-9 REGISTRY
ED Entered STN: 16 Nov 1984
CN 1,3-Dithiol-1-ium, 2-[4-[1-methyl-2-(phenylmethylene)hydrazinyl]phenyl]-4-phenyl- (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 1,3-Dithiol-1-ium, 2-[4-[methyl(phenylmethylene)hydrazino]phenyl]-4-phenyl- (9CI)
MF C23 H19 N2 S2
CI COM

L19 ANSWER 39 OF 39 REGISTRY COPYRIGHT 2011 ACS on STN
RN 54132-13-7 REGISTRY
ED Entered STN: 16 Nov 1984
CN Benzaldehyde, 2-[4-(9-acridinyl)phenyl]hydrazone, hydriodide (1:1) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Benzaldehyde, [4-(9-acridinyl)phenyl]hydrazone, monohydriodide (9CI)
MF C26 H19 N3 . H I
CRN (55754-28-2)

● HI

=> fil caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	288.45	981.09

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-33.06

FILE 'CAPLUS' ENTERED AT 11:54:15 ON 26 JUL 2011
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 26 Jul 2011 VOL 155 ISS 5
FILE LAST UPDATED: 25 Jul 2011 (20110725/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Jun 2011
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Jun 2011

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     FILE 'REGISTRY' ENTERED AT 11:28:33 ON 26 JUL 2011
L9                STRUCTURE UPLOADED
L10           10 S L9
L11          165 S L9 FULL
L12          146 S L11 AND CAPLUS/LC
L13           19 S L11 NOT L12

     FILE 'CAPLUS' ENTERED AT 11:29:44 ON 26 JUL 2011
L14           35 S L12

     FILE 'STNGUIDE' ENTERED AT 11:32:44 ON 26 JUL 2011

     FILE 'REGISTRY' ENTERED AT 11:51:13 ON 26 JUL 2011
L15               STRUCTURE UPLOADED
L16           13 S L15
L17          297 S L15 FULL
L18          258 S L17 AND CAPLUS/LC
L19           39 S L17 NOT L18

     FILE 'CAPLUS' ENTERED AT 11:54:15 ON 26 JUL 2011

=> s l18
L20           72 L18

=> d ibib abs hitstr 1-72
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L20 ANSWER 1 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2011:372432 CAPLUS
DOCUMENT NUMBER: 154:385113
TITLE: Preparation of indole derivatives as CRAC modulators
INVENTOR(S): Alam, Muzaffar; Du Bois, Daisy Joe; Hawley, Ronald Charles; Kennedy-Smith, Joshua; Minatti, Ana Elena; Palmer, Wylie Solang; Silva, Tania; Wilhelm, Robert Stephen
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 143pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

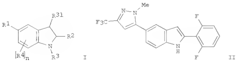
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20110071150	A1	20110324	US 2010-888701	20100923
WO 2011036130	A1	20110331	WO 2010-EP63838	20100921

W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW

RW: AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, SM, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LR, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

PRIORITY APPLN. INFO.: US 2009-245521P P 20090924
US 2010-378062P P 20100830

OTHER SOURCE(S): MARPAT 154:385113
GI

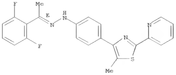


AB The title compds. I [R1 = substituted Ph, (un)substituted pyridinyl, pyrimidinyl, 5-membered heteroaryl; R2 = cycloalkyl, substituted Ph, (un)substituted pyridinyl, etc.; R3 = H; R31 = H or alkyl; n = 0-3; R4 = H, alkyl, alkoxy, halo, haloalkyl], useful for treatment of diseases associated with calcium release-activated calcium channels (CRAC), were prepared and formulated. E.g., a multi-step synthesis of II, starting from 1-(2,6-difluorophenyl)ethanone and 4-bromophenylhydrazine, was described.

L20 ANSWER 1 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)

Exemplified compds. I were tested in Jurkat IL-2 prodn. assay (IC50 values given).
IT 1279106-31-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of indole derivs. as CRAC modulators)
RN 1279106-31-8 CAPLUS
CN Ethanone, 1-(2,6-difluorophenyl)-, 2-[4-[5-methyl-2-(2-pyridinyl)-4-thiazolyl]phenyl]hydrazone, (1E)- (CA INDEX NAME)

Double bond geometry as shown.



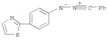
L20 ANSWER 2 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2010:1339538 CAPLUS
DOCUMENT NUMBER: 153:557141
TITLE: Pneumatic tires with low heat buildup and excellent abrasion resistance
INVENTOR(S): Fueki, Takashi
PATENT ASSIGNEE(S): Bridgestone Corp., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 25pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2010241898	A	20101028	JP 2009-89999	20090402
PRIORITY APPLN. INFO.:			JP 2009-89999	20090402

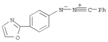
OTHER SOURCE(S): MARPAT 153:557141

AB Title tires use rubber compns. containing 10-150 phr silicic acid hydrate as a filler satisfying Aac ≥ -0.76 × (CTAB) + 274 [CTAB (m2/g) = cetyltrimethylammonium bromide-adsorption sp. surface area; Aac (nm) = mode diameter of primary aggregates obtained by acoustic particle size distribution measurement] and (ignition loss by weight% at 750° for 3 h) - (heating loss by weight% at 105° for 2 h) ≤ 3 and 0.05-5 phr of ≥1 compds. selected from WArCONHN:CR3R4 [Ar = aromatic ring, (un)substituted hydantoin ring, C1-18 (un)saturated linear hydrocarbon; W = CONHN:CR1R2, OH, amino; R1-4 = H, C1-18 alkyl, cycloalkyl, aromatic ring], C10H6(OH)CONHN:CR5R6 (R5, R6 = C1-18 alkyl, cycloalkyl, aryl, may contain O, S, or N), and QAB (Q = bipolar N-containing part; B = oxazoline part, thiazoline part, alkoxysilane part, allyltin part; A = bridging atom or group) in the treads. Thus, a composition of SBR 1712 (SBR containing 37.5 phr oil) 96.25, BR 150L 30, carbon black (Seast 7HM) 15, silicic acid hydrate (CTAB 112 m2/g, Aac 208 nm, ignition loss - heating loss 2.6%) 65, silane coupling agent (Si 69) 5.2, 4-(2-oxazolyl)phenyl-N-phenylnitrone 2, stearic acid 2, antioxidant 1.5, ZnO 3, vulcanizing accelerators 1.5, and S 1.5 parts showed low heat buildup and good abrasion resistance.
IT 1029347-29-2, Phenyl-N-4-(2-thiazolyl)phenylnitrilimine
1029347-45-2, Phenyl-N-4-(2-oxazolyl)phenylnitrilimine
RL: MOA (Modifier or additive use); USES (Uses)
(dispersion improver; pneumatic tires with low heat buildup and good abrasion resistance)
RN 1029347-29-2 CAPLUS
CN Hydrazinium, 1-(phenylmethylidyne)-2-[4-(2-thiazolyl)phenyl]-, inner salt (CA INDEX NAME)

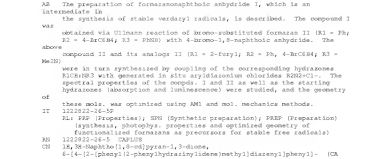


L20 ANSWER 2 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)

RN 1029347-45-2 CAPLUS
CN Hydrazinium, 1-[4-(2-oxazolyl)phenyl]-2-(phenylmethylidyne)-, inner salt (CA INDEX NAME)

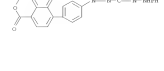


L20 ANSWER 3 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2009:1576397 CAPLUS
DOCUMENT NUMBER: 152:500978
TITLE: Synthesis and study of synthons for preparation of stable free radicals
AUTHOR(S): Dyatanov, V. B.; Lazova, I. V.; Dyatanov, V. V.; Falaleeva, T. V.; Anishchenko, A. O.
CORPORATE SOURCE: NTU "KhPI", Kharkov, Ukraine
SOURCE: Visnik Natsional'nogo Tekhnichnogo Universitetu "KhPI"
(2008), (41), 145-155
CODEN: VNTUAJ
PUBLISHER: Natsional'nyi Tekhnichni Universitet "KhPI"
DOCUMENT TYPE: Journal
LANGUAGE: Ukrainian
OTHER SOURCE(S): CASREACT 152:500978
GI



AB The preparation of formazanonaphtholo anhydride I, which is an intermediate in the synthesis of stable verdazyl radicals, is described. The compound I was obtained via Ullmann reaction of bromo-substituted formazan II (R1 = Ph; R2 = 4-BrC6H4; R3 = PhNH) with 4-bromo-1,8-naphtoic anhydride. The above compound II and its analogs II (R1 = 2-furyl; R2 = Ph, 4-BrC6H4; R3 = NMe2) were in turn synthesized by coupling of the corresponding hydrazones R1C:NNHR3 with generated in situ aryldiazonium chlorides R2N2+Cl-. The spectral properties of the compds. I and II as well as the starting hydrazones (absorption and luminescence) were studied, and the geometry of these mols. was optimized using AM1 and mol. mechanics methods.
IT 1222822-26-5P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(synthesis, photophys. properties and optimized geometry of functionalized formazans as precursors for stable free radicals)
RN 1222822-26-5 CAPLUS
CN 1H,3H-Naphtho[1,8-cd]pyran-1,3-dione, 6-[4-[2-[phenyl-(1-phenylhydrazinylidene)methyl]diazenyl]phenyl]- (CA INDEX NAME)

L20 ANSWER 3 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)



L20 ANSWER 4 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2009:1336874 CAPLUS
DOCUMENT NUMBER: 151:381340
TITLE: Preparation of thiazolylidihydroindazole derivatives for use as antiproliferative agents
INVENTOR(S): McConnell, Darryl; Impagnatiello, Maria; Kessler, Dirk; Kraemer, Oliver; Schneider, Siegfried; Van Der Veen, Lars; Weyer-Czernilofsky, Ulrike; Wunberg, Tobias
PATENT ASSIGNEE(S): Boehringer Ingelheim International GmbH, Germany
SOURCE: PCT Int. Appl., 158pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2009112565	A1	20090917	WO 2009-EP52959	20090313
W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
AR 70877	A1	20100512	AR 2009-100892	20090313
AU 2009224659	A1	20090917	AU 2009-224659	20090313
CA 2717488	A1	20090917	CA 2009-2717488	20090313
KR 2010135743	A	20101227	KR 2010-7020481	20090313
EP 2268282	A1	20110209	EP 2009-719604	20090313
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LI, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, AL, BA, RS
CN 102015718	A	20110413	CN 2009-80116482	20090313
JP 2011513471	T	20110428	JP 2010-550206	20090313
MX 2010009837	A	20100928	MX 2010-9837	20100907
IN 2010DN04436	A	20110702	IN 2010-DN4436	20100913
US 20110118206	A1	20110519	US 2010-921588	20101222
PRIORITY APPLN. INFO.:			EP 2008-152721	A 20080313
			WO 2009-EP52959	W 20090313

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): CASREACT 151:381340; MARPAT 151:381340
GI

L20 ANSWER 4 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)
heteroaryl], and their pharmaceutically acceptable salts, are prepd. and disclosed as antiproliferative agents. Thus, e.g., II was prepd. by addn. of 6-fluoronicotinic acid chloride to N-[7-oxo-4,5,6,7-tetrahydrobenzothiazol-2-yl]acetamide followed by cyclization with [5-fluoro-4-[S-morpholin-4-ylethoxy]phenyl]hydrazine hydrochloride (prepn. given). Select I were evaluated in PC3 proliferation assays (data given).
IT 1187368-74-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of thiazolylidihydroindazole derivs. for use as antiproliferative agents)
RN 1187368-74-6 CAPLUS
CN Methanone, diphenyl-, 2-[4-[1-methyl-2-pyrrolidinyl]phenyl]hydrazone (CA INDEX NAME)

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)
REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Title compds. I [R1 = MeO, MeC(O)O, MeC(O)O, etc.; R2 = H, (un)substituted alkyl, cycloalkyl, aryl, etc.; R3 = (un)substituted

L20 ANSWER 5 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2009:1136479 CAPLUS
DOCUMENT NUMBER: 151:381414
TITLE: Acetocyclic derivatives as inhibitors of poly(ADP-ribose)polymerase useful in the treatment of diseases and preparation and pharmaceutical compositions thereof
INVENTOR(S): Ingenito, Raffaele; Jones, Philip; Llaeger Rufi, Laura; Ontoria Ontoria, Jesus Maria; Scarpelli, Rita
PATENT ASSIGNEE(S): Istituto di Ricerche di Biologia Molecolare P. Angeletti S.p.A., Italy
SOURCE: PCT Int. Appl., 60pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2009113832	A1	20090917	WO 2009-GB461	20090213
W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
AU 2009224004	A1	20090917	AU 2009-224004	20090213
CA 2716918	A1	20090917	CA 2009-2716918	20090213
EP 2265613	A1	20101229	EP 2009-719116	20090213
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LI, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, AL, BA, RS				
JP 2011513475	T	20110428	JP 2010-550258	20090213
US 20110065911	A1	20110303	US 2010-922270	20100917
PRIORITY APPLN. INFO.:			GB 2008-4755	A 20080314
			WO 2009-GB461	W 20090213

OTHER SOURCE(S): CASREACT 151:381414; MARPAT 151:381414
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Title compds. I, their pharmaceutically acceptable salts, stereoisomers, tautomers, and pharmaceutical compns. are prepared and disclosed as inhibitors of poly(ADP-ribose)polymerase (PARP) useful in the treatment of diseases. Compds. I [dotted lines = alternating double bonds forming an aromatic system; Q = (CR3R2)m; a and j independently = 0-3; b = 1 or 2, e and

L20 ANSWER 6 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2008:1097723 CAPLUS
DOCUMENT NUMBER: 149:353822
TITLE: Modified diene polymers, and rubber compositions and tires using them
INVENTOR(S): Kurakado, Junko; Fukushima, Yasuo
PATENT ASSIGNEE(S): Bridgestone Corp., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 18pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2008208163	A	20080911	JP 2007-43805	20070223
PRIORITY APPLN. INFO.:			JP 2007-43805	20070223

AB Compds. having dipolar N-containing part (Q) and N- and O- or S-containing 4-6-membered heterocyclic part (S) are bonded to synthetic diene polymers via Q to give the title modified polymers. Title compns. and tires show low heat build-up and good abrasion resistance. Thus, 30 g high-cis-BR

IT 700: was dissolved in cyclohexane, treated with 0.15 g 4-(2-oxazolyl)phenyl-N-phenylnitrone at 50° for 1 h, and dried to give a modified polymer (105% yield). 50 parts of which was blended with natural rubber 50, carbon black 50, stearic acid 2, wax 1, antioxidant 2, and ZnO 2.5 parts, and kneaded with vulcanizing accelerators and S to give a composition showing low tanδ and high abrasion resistance compared with a control containing unmodified T 700 instead of the modified one.

IT 1029347-29-2, Phenyl-N-4-(2-thiazolyl)phenylnitrilimine
1029347-45-2, Phenyl-N-4-(2-oxazolyl)phenylnitrilimine
RL: RCT (Reactant); RACT (Reactant or reagent)
(dipolar nitrogen-modified diene polymers for rubber compns. for tires with good abrasion resistance and low heat build-up)

RN 1029347-29-2 CAPLUS
CN Hydrazinium, 1-(phenylmethylidyne)-2-[4-(2-thiazolyl)phenyl]-, inner salt
(CA INDEX NAME)

RN 1029347-45-2 CAPLUS
CN Hydrazinium, 1-[4-(2-oxazolyl)phenyl]-2-(phenylmethylidyne)-, inner salt
(CA INDEX NAME)

L20 ANSWER 5 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)
g independently = 0-6; d, e, f, and h = 0 or 1; one of A, B, D, and E = N and the others independently = N, C, or CH, with the provision that when D = N, at least one of A, B, and E = N; R1 and R2 independently = H or C1-6 alkyl; R3 independently = OH, halo, C1-6 alkyl, etc.; R4, R5, R7, and R8 independently = H, C1-6 alkyl, or halo; R6 and R9 = H, C1-6 alkyl, or C3-10 cycloalkyl; R10 = H, NO2, C2-10 alkenyl, etc.; Y = C2-12 aryl or 5- to 10-membered unsatd. heterocycle), their pharmaceutically acceptable salts, stereoisomers, and tautomers are claimed. For example, compd. II'TFA was prepd. via multi-step procedure (prepn. given). Select 1 were assayed for PARP inhibition and were found to possess IC50 values of <5μM.

IT 1187738-49-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of naticyclic derivs. as inhibitors of poly(ADP-ribose)polymerase useful in the treatment of diseases)

RN 1187738-49-9 CAPLUS
CN Methanone, diphenyl-, 2-[4-[1-(phenylmethyl)-3-piperidinyl]phenyl]hydrazone (CA INDEX NAME)

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

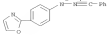
L20 ANSWER 6 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)

ACCESSION NUMBER: 2008:858289 CAPLUS
DOCUMENT NUMBER: 149:154590
TITLE: Manufacture of mixed rubber with low loss modulus, mixed rubber manufactured thereby, their rubber compositions, and tires using the compositions
INVENTOR(S): Fukushima, Yasuo
PATENT ASSIGNEE(S): Bridgestone Corp., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 14pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2008162228	A	20080717	JP 2006-355399	20061228
PRIORITY APPLN. INFO.:			JP 2006-355399	20061228

AB Title manufacturing method involves mixing/kneading natural rubber and/or synthetic rubber with 80.1% compds. containing dipolar N and O- or S- and N-containing 4-6 membered heterocyclic rings. Thus, JSR 3108 (BR) was
dissolved in cyclohexane, mixed with
4-(2-oxazolyl)phenyl-N-phenylnitrone,
isopropanol added, and dried to give a masterbatch. A composition containing the
masterbatch, C black, S, and vulcanizing accelerators was vulcanized into a test piece showing low tanδ.
IT 1029347-29-1, Phenyl-N-4-(2-thiazolyl)phenylnitrilimine
1029347-45-2, Phenyl-N-4-(2-oxazolyl)phenylnitrilimine
RL: RCT (Reactant); RACT (Reactant or reagent)
(manufacture of mixed rubber with low loss modulus by treating rubber with
dipolar N-containing heterocycles for tires)
RN 1029347-29-2 CAPLUS
CN Hydrazinium, 2-[phenylmethylidyne)-2-[4-(2-thiazolyl)phenyl]-, inner salt
(CA INDEX NAME)

RN 1029347-45-2 CAPLUS
CN Hydrazinium, 2-[4-(2-oxazolyl)phenyl]-2-(phenylmethylidyne)-, inner salt
(CA INDEX NAME)



ACCESSION NUMBER: 2008:769795 CAPLUS
DOCUMENT NUMBER: 149:81503
TITLE: Rubber compositions containing plasticizers and dispersants having dipolar parts and heterocyclic parts, and pneumatic tires using the compositions for treads
INVENTOR(S): Fukushima, Yasuo
PATENT ASSIGNEE(S): Bridgestone Corp., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 29pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2008343944	A	20080626	JP 2006-329599	20061206
PRIORITY APPLN. INFO.:			JP 2006-329599	20061206

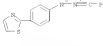
AB The compns. comprise (A) 100 parts rubbers, (B) 2-60 parts aromatic vinyl compound-conjugated diene copolymers with Mw 5000-500,000 (by GPC, polystyrene standard), and (C) 0.1-30 parts compds. having dipolar N-containing
parts and O- or S- and N-containing 4-6-membered heterocyclic parts. Good
dispersibility of fillers (carbon black, silica, etc.) contained in the compns. by reacting the heterocyclic parts with the fillers and reacting the dipolar N-containing parts with A and/or B is provided with this invention. 7Tris, 4-formylbenzyl chloride was reacted with 2-aminoethanol
to give 4-formyl-N-(2-hydroxyethyl)-benzamide, cyclized in the presence of
NaOH to give 4-(2-oxazolyl)-benzaldehyde, and then reacted with N-phenyl-hydroxyamine to give 4-(2-oxazolyl)-phenyl-N-phenylnitrone (dispersant). A composition comprising styrene-butadiene rubber (SBR 1500),
SnCl4-modified 1,3-butadiene-styrene copolymer (plasticizer), and the dispersant was molded into a tread showing high storage modulus and low tanδ.
IT 883552-06-5 883552-07-6
RL: MOA (Modifier or additive use); USES (Uses)
(dispersant; rubber compns. containing plasticizers and dispersants having
dipolar parts and heterocyclic parts for tire treads with high storage modulus and low tanδ)
RN 883552-06-5 CAPLUS
CN Hydrazinium, 1-[4-(4,5-dihydro-2-oxazolyl)phenyl]-2-(phenylmethylidyne)-, inner salt (CA INDEX NAME)

RN 883552-07-6 CAPLUS
CN Hydrazinium,
1-[4-(4,5-dihydro-2-thiazolyl)phenyl]-2-(phenylmethylidyne)-, inner salt (CA INDEX NAME)

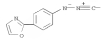
ACCESSION NUMBER: 2008:669986 CAPLUS
DOCUMENT NUMBER: 149:11425
TITLE: Abrasion-resistant rubber compositions with low rolling resistance and pneumatic tires containing them
INVENTOR(S): Akaishi, Koji
PATENT ASSIGNEE(S): Bridgestone Corp., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 23pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2008127453	A	20080605	JP 2006-312333	20061120
PRIORITY APPLN. INFO.:			JP 2006-312333	20061120

AB The compns. contain natural or synthetic rubber components 100, compds. having dipolar N-contg parts and O- or S-containing and 4-6 N-containing heterocyclic parts 0.1-70, fillers comprising carbon black 10-70, silicon 10-140, and S-containing silanes 1-30, and organic short fibers and fine particle-containing organic short fibers 1-5 parts. Thus, a tire having treads
prepared from composition containing natural rubber 70, cis-1,4-butadiene rubber
(Nipol 1502) 30, carbon black (N 134) 20, silica (Nipsil AQ) 60, S-containing
silane (Si 69) 6, 4-(2-oxazolyl)phenyl-N-phenylnitrone 1, polyethylene short fibers 1.3, and inorg. fine particle-containing polyethylene short fibers 2.1 part showed improved abrasion resistance and good driving properties on ice and wet roads.
IT 1029347-29-2 1029347-45-2
RL: MOA (Modifier or additive use); USES (Uses)
(abrasion-resistant rubber compns. with low rolling resistance for tire
treads)
RN 1029347-29-2 CAPLUS
CN Hydrazinium, 1-[phenylmethylidyne)-2-[4-(2-thiazolyl)phenyl]-, inner salt
(CA INDEX NAME)



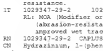
RN 1029347-45-2 CAPLUS
CN Hydrazinium, 1-[4-(2-oxazolyl)phenyl]-2-(phenylmethylidyne)-, inner salt
(CA INDEX NAME)



ACCESSION NUMBER: 2008:665701 CAPLUS
DOCUMENT NUMBER: 149:11421
TITLE: Abrasion-resistant rubber compositions with low rolling resistance and ungrooved wet traction for tire treads
INVENTOR(S): Mifune, Yohei
PATENT ASSIGNEE(S): Bridgestone Corp., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 17pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2008127464	A	20080605	JP 2006-314036	20061121
PRIORITY APPLN. INFO.:			JP 2006-314036	20061121

AB The compns. contain rubber components including 10-90 parts (un)modified styrene-butadiene rubber 100, fillers including 5-95 % (based on total fillers) silica 30-150, compds. having dipolar N-contg parts and O- or S-containing and 4-6 N-containing heterocyclic parts 0.1-30 parts. Thus, a tire
having treads prepared from composition containing natural rubber 50, SBR 1500 10,
modified SBR 40, carbon black (ISAF) 10, silica (Nipsil AQ) 60, 4-(2-oxazolyl)phenyl-N-phenylnitrone 1 part showed decreased rolling resistance.
IT 1029347-29-2 1029347-45-2
RL: MOA (Modifier or additive use); USES (Uses)
(abrasion-resistant rubber compns. with low rolling resistance and ungrooved wet traction for tire treads)
RN 1029347-29-2 CAPLUS
CN Hydrazinium, 1-[phenylmethylidyne)-2-[4-(2-thiazolyl)phenyl]-, inner salt
(CA INDEX NAME)

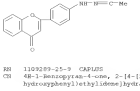


RN 1029347-45-2 CAPLUS
CN Hydrazinium, 1-[4-(2-oxazolyl)phenyl]-2-(phenylmethylidyne)-, inner salt
(CA INDEX NAME)

L20 ANSWER 11 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2008:519810 CAPLUS
DOCUMENT NUMBER: 150:193970
TITLE: Synthesis and biological activity of 2-[4-(4-Formyl-3-[substituted phenyl] pyrazol-1-yl) phenyl]-4H-benzopyran-4-ones
AUTHOR(S): Bhalekar, Satish M.; Parab, Harshada N.
CORPORATE SOURCE: Organic Chemistry Research Laboratory, Department of Chemistry, S.I.W.S. College, Mumbai, 400 031, India
SOURCE: Indian Journal of Heterocyclic Chemistry (2008), 17(3), 285-286
CODEN: IJCHEJ; ISSN: 0971-1627
PUBLISHER: Prof. R. S. Verma
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 150:193970
AB 2-(4-hydrazino phenyl)-4H-1-benzopyran-4-one was treated with appropriate Me Ph ketones to form corresponding hydrazones, which got cyclized under Vilsmeier Haack reaction to yield. The structures of the synthesized compds. were established on the basis of elemental anal. and spectral (IR and NMR) data. All compds. were screened for their antibacterial activity.
IT 1109289-23-7P 1109289-24-8P 1109289-25-9P 1109289-26-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and antibacterial activity of [(formyl- or/yl-pyrazolyl)-phenyl]benzopyranones by condensation of hydrazinophenyl-benzopyranone with acetophenones followed by Vilsmeier Exact reaction)
RN 1109289-23-7 CAPLUS
CN 4H-1-Benzopyran-4-one, 2-[4-[2-[1-(2-hydroxyphenyl)ethylidene]hydrazinyl]phenyl]- (CA INDEX NAME)

RN 1109289-24-8 CAPLUS
CN 4H-1-Benzopyran-4-one, 2-[4-[2-[1-phenylethylidene]hydrazinyl]phenyl]- (CA INDEX NAME)

L20 ANSWER 11 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)



RN 1109289-25-9 CAPLUS
CN 4H-1-Benzopyran-4-one, 2-[4-[2-[1-(4-hydroxyphenyl)ethylidene]hydrazinyl]phenyl]- (CA INDEX NAME)

RN 1109289-26-0 CAPLUS
CN 4H-1-Benzopyran-4-one, 2-[4-[2-[1-(4-nitrophenyl)ethylidene]hydrazinyl]phenyl]- (CA INDEX NAME)

OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD
(2 CITINGS)
REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

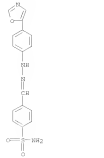
L20 ANSWER 12 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2007:1390731 CAPLUS
DOCUMENT NUMBER: 148:158944
TITLE: Orally administered amyloidophilic compounds is effective in prolonging the incubation periods of animals cerebrally infected with prion diseases in a prion strain-dependent manner
AUTHOR(S): Kawasaki, Yuri; Kawaguo, Keiichi; Chen, Chun-jen; Teruya, Kenta; Sakaegawa, Yuji; Doh-ura, Katsumi
CORPORATE SOURCE: Department of Prion Research, Tohoku University Graduate School of Medicine, Sendai, Japan
SOURCE: Journal of Virology (2007), 81(23), 12889-12898
CODEN: JOVIAM; ISSN: 0022-538X
PUBLISHER: American Society for Microbiology
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The establishment of effective therapeutic interventions for prion diseases is necessary. We report on a newly developed amyloidophilic compound that displays therapeutic efficacy when administered orally. This compound inhibited abnormal prion protein formation in prion-infected neuroblastoma cells in a prion strain-dependent manner; effectively for RML prion and marginally for 22L prion and Fukuoka-1 prion. When the highest dose (0.2% [wt/wt] in feed) was given orally to cerebrally RML prion-inoculated mice from inoculation until the terminal stage of disease, it extended the incubation periods by 2.3 times compared to the control. The compound exerted therapeutic efficacy in a prion strain-dependent manner such as that observed in the cell culture study; however, effective for RML prion, less effective for 22L prion or Fukuoka-1 prion, and marginally effective for 263K prion. Its effectiveness depended on an earlier start of administration. The glycoform pattern of the abnormal prion protein in the treated mice was modified and showed predominance of the diglycosylated form, which resembled that of 263K prion, suggesting that diglycosylated forms of abnormal prion protein might be least sensitive or resistant to the compound. The mechanism of the prion strain-dependent effects remains to be elucidated and managed. Nevertheless, the identification of an orally available amyloidophilic chemical encourages the pursuit of chemotherapy for prion diseases.
IT 774237-30-4 774237-49-9 774237-60-4 1021853-74-2
RL: PAC (Pharmacological activity); PKT (Pharmacokinetics); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(orally administered amyloidophilic compds. are effective in prolonging the incubation periods of animals cerebrally infected with prion diseases in a prion strain-dependent manner)
RN 774237-30-4 CAPLUS
CN Benzaldehyde, 4-[1-piperazinyl]-, 2-[4-[5-oxazolyl]phenyl]hydrazone (CA INDEX NAME)

L20 ANSWER 12 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)

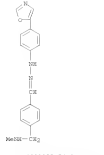
PAGE 1-A

PAGE 2-A

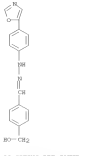
RN 774237-49-9 CAPLUS
CN Benzenesulfonamide, 4-[2-[4-[5-oxazolyl]phenyl]hydrazinylidene]methyl]- (CA INDEX NAME)



RN 774237-60-4 CAPLUS
CN Benzaldehyde, 4-[(methylamino)methyl]-,
2-[4-[5-oxazolyl]phenyl]hydrazone
(CA INDEX NAME)



RN 1001853-74-2 CAPLUS
CN Benzaldehyde, 4-(hydroxymethyl)-, 2-[4-[5-oxazolyl]phenyl]hydrazone (CA INDEX NAME)



OS.CITING REF COUNT: 15 THERE ARE 15 CAPLUS RECORDS THAT CITE THIS RECORD (15 CITINGS)

REFERENCE COUNT: 32 THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

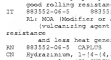
ACCESSION NUMBER: 2007:1037421 CAPLUS
DOCUMENT NUMBER: 147:387389
TITLE: Rubber composition and pneumatic tire using it
INVENTOR(S): Fukuhara, Yasuo
PATENT ASSIGNEE(S): Bridgestone Corp., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 16pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2007238903	A	20070920	JP 2006-67485	20060313
PRIORITY APPLN. INFO.:			JP 2006-67485	20060313

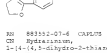
AB The composition comprises natural rubber and/or synthetic rubber, a compound having a segment Q containing dipolar nitrogen and a segment B containing O- or S-bearing heterocyclic nitrogen ring, and an oil. A tire tread composition contained JSR 1500 100, process oil 20, carbon black (N220) 55, and 4-(2-oxazolyl)phenyl-N-phenylnitrone 0.5 part, showing tan δ 106 and good rolling resistance.

IT 883552-06-5 883552-07-6
RL: MOA (Modifier or additive use); USES (Uses)
(vulcanizing agent; rubber composition for tire with good rolling resistance and less heat generation)

RN 883552-06-5 CAPLUS
CN Hydrazinium, 1-[4-(4,5-dihydro-2-oxazolyl)phenyl]-2-(phenylmethylidyne)-, inner salt (CA INDEX NAME)



RN 883552-07-6 CAPLUS
CN Hydrazinium,
1-[4-(4,5-dihydro-2-thiazolyl)phenyl]-2-(phenylmethylidyne)-, inner salt (CA INDEX NAME)

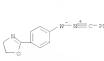


L20 ANSWER 14 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2007:992825 CAPLUS
DOCUMENT NUMBER: 147:324390
TITLE: Rubber compositions with low heat generation and their
gravimetric tires
INVENTOR(S): Fukushima, Yasuo, Nakamura, Eiji
PATENT ASSIGNEE(S): Bridgestone Corp., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 17pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

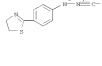
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2007224977	A	20070906	JP 2006-43591	20060221
JP 4708210	B2	20110622		
PRIORITY APPLN. INFO.:			JP 2006-43591	20060221

AB Title compns., useful for heavy-load or off-road tires, comprise 100 parts
rubbers containing diene-based polymers with content of polymers with
mol. weight
with ≤100,000 <20% measured by GPC (polystyrene standard) and 0.1-30
parts compds. containing dipolar N-containing parts (Q) and O or S and
N-containing
4-6-membered heterocyclic parts. Thus, a tire was manufactured from 100
parts
SBR and 1 part 4-(4,5-dihydro-2-oxazolyl)phenyl-N-phenylnitrone reactive
to the SBR.
IT 883552-06-5 883552-07-6
RL: RCT (Reactant); RACT (Reactant or reagent)
(heavy-load or off-road tires with low heat generation manufactured
from
N-containing heterocyclic compound-modified SBR)
RN 883552-06-5 CAPLUS
CN Hydrazinium, 1-[4-(4,5-dihydro-2-oxazolyl)phenyl]-2-(phenylmethylidyne)-,
inner salt (CA INDEX NAME)



RN 883552-07-6 CAPLUS
CN Hydrazinium,
1-[4-(4,5-dihydro-2-thiazolyl)phenyl]-2-(phenylmethylidyne)-,
inner salt (CA INDEX NAME)

L20 ANSWER 14 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)

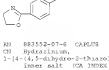


L20 ANSWER 15 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2007:992822 CAPLUS
DOCUMENT NUMBER: 147:324389
TITLE: Rubber compositions with low heat generation and good
workability and their pneumatic tires
INVENTOR(S): Fukushima, Yasuo, Nakamura, Eiji
PATENT ASSIGNEE(S): Bridgestone Corp., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 17pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

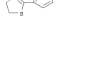
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2007224076	A	20070906	JP 2006-43590	20060221
JP 4708209	B2	20110622		
PRIORITY APPLN. INFO.:			JP 2006-43590	20060221

AB Title compns., useful for heavy-load or off-road tires, comprises natural
and/or synthetic rubbers 100, compds. containing dipolar N-containing
parts (Q)
and O or S and N-containing 4-6-membered heterocyclic parts (B) 0.1-30,
and
fatty acid metal salts 0.5-20 parts. Thus, a tire tread was
manufactured from
SBR (SBR 1500) 80, processing aid of a fatty acid metal salt (Aktiplast
PP) 1.5, and 4-(4,5-dihydro-2-oxazolyl)phenyl-N-phenylnitrone reactive to
the SBR 0.3 part.
IT 883552-06-5 883552-07-6
RL: RCT (Reactant); RACT (Reactant or reagent)
(heavy-load or off-road tires with low heat generation manufactured
from
N-containing heterocyclic compound-modified SBR)
RN 883552-06-5 CAPLUS
CN Hydrazinium, 1-[4-(4,5-dihydro-2-oxazolyl)phenyl]-2-(phenylmethylidyne)-,
inner salt (CA INDEX NAME)



RN 883552-07-6 CAPLUS
CN Hydrazinium,
1-[4-(4,5-dihydro-2-thiazolyl)phenyl]-2-(phenylmethylidyne)-,
inner salt (CA INDEX NAME)

L20 ANSWER 15 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)



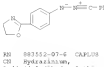
ACCESSION NUMBER: 2007:992816 CAPLUS
DOCUMENT NUMBER: 147:324389
TITLE: Rubber compositions with low heat generation and good abrasion resistance and their pneumatic tires
INVENTOR(S): Fukushima, Yasuo; Nakamura, Eiji
PATENT ASSIGNEE(S): Bridgestone Corp., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 18pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2007224075	A	20070906	JP 2006-43589	20060221
PRIORITY APPLN. INFO.:			JP 2006-43589	20060221

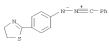
AB Title compns., useful for heavy-load or off-road tires, comprise 100 parts rubbers containing ≥10% modified conjugated diene polymers and 0.1-70 parts oxepdc. containing dipolar N-containing parts (Q) and O or S and N-containing 4-6-membered heterocyclic parts (B). Thus, a tire was manufactured from SBR (SBR 1502) 80, 1,3-butadiene-styrene rubber modified with SnCl4 20, and 4-(4,5-dihydro-2-oxazolyl)phenyl-N-phenylnitrone reactive to the SBR 0.5 part.

IT 883552-06-5 883552-07-6
RL: RCT (Reactant); RACT (Reactant or reagent)
(heavy-load or off-road tires with good abrasion resistance manufactured from N-containing heterocyclic compound-modified SBR and Sn-modified SBR)

RN 883552-06-5 CAPLUS
CN Hydrazinium, 1-[4-(4,5-dihydro-2-oxazolyl)phenyl]-2-(phenylmethylidyne)-, inner salt (CA INDEX NAME)



RN 883552-07-6 CAPLUS
CN Hydrazinium, 1-[4-(4,5-dihydro-2-thiazolyl)phenyl]-2-(phenylmethylidyne)-, inner salt (CA INDEX NAME)



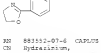
ACCESSION NUMBER: 2007:992808 CAPLUS
DOCUMENT NUMBER: 147:324387
TITLE: Rubber compositions with low heat generation and good abrasion resistance and their pneumatic tires
INVENTOR(S): Fukushima, Yasuo; Nakamura, Eiji
PATENT ASSIGNEE(S): Bridgestone Corp., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 18pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2007224074	A	20070906	JP 2006-43588	20060221
JP 4708208	B2	20110622		
PRIORITY APPLN. INFO.:			JP 2006-43588	20060221

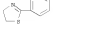
AB Title compns., useful for heavy-load or off-road tires, comprise natural and/or diene-based synthetic rubbers 100, 1,3-dipole compds. containing dipolar N-containing parts (Q) and O or S and N-containing 4-6-membered heterocyclic parts (B) 0.1-30, and C black with di-Bu phthalate (DBP) oil absorption 90-250 mL/100 g 30-70 parts. Thus, a tire was manufactured from SBR (SBR 1502) 100, C black 55, and 4-(4,5-dihydro-2-oxazolyl)phenyl-N-phenylnitrone reactive to the SBR and the C black 0.5 part.

IT 883552-06-5 883552-07-6
RL: RCT (Reactant); RACT (Reactant or reagent)
(heavy-load or off-road tires with good abrasion resistance manufactured from N-containing heterocyclic compound-modified SBR and C black)

RN 883552-06-5 CAPLUS
CN Hydrazinium, 1-[4-(4,5-dihydro-2-oxazolyl)phenyl]-2-(phenylmethylidyne)-, inner salt (CA INDEX NAME)



RN 883552-07-6 CAPLUS
CN Hydrazinium, 1-[4-(4,5-dihydro-2-thiazolyl)phenyl]-2-(phenylmethylidyne)-, inner salt (CA INDEX NAME)



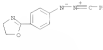
OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD

(1 CITINGS)

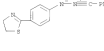
ACCESSION NUMBER: 2007:992807 CAPLUS
DOCUMENT NUMBER: 147:345444
TITLE: Rubber compositions with low heat generation and good chip/cut resistance and their tires
INVENTOR(S): Fukushima, Yasou; Nakamura, Kiji
PATENT ASSIGNEE(S): Bridgestone Corp., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 18pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2007224073	A	20070906	JP 2006-43587	20060221
JP 4706927	B2	20110622		
PRIORITY APPLN. INFO.:			JP 2006-43587	20060221

AB Title compns., useful for heavy-load or off-road tires, comprise natural and/or diene-based synthetic rubbers 100, 1,3-dipole compds. containing dipolar N-containing parts (Q) and O or S and N-containing 4-6-membered heterocyclic parts (B) 0.1-30, and polymers 0.5-20 parts. Thus, a tire was manufactured from SBR (SBR 1500) 100, dicyclopentadiene polymer (Nisseki D 145) 8, and 4-(4,5-dihydro-2-oxazolyl)phenyl-N-phenylnitrone reactive to the SBR 0.5 part.
IT 883552-06-5 883552-07-6
RL: RCT (Reactant); RACT (Reactant or reagent)
(heavy-load or off-road tires with low heat generation manufactured from
N-containing heterocyclic compound-modified SBR and polymers)
RN 883552-06-5 CAPLUS
CN Hydrazinium, 1-[4-(4,5-dihydro-2-oxazolyl)phenyl]-2-(phenylmethylidyne)-, inner salt (CA INDEX NAME)



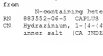
RN 883552-07-6 CAPLUS
CN Hydrazinium, 1-[4-(4,5-dihydro-2-thiazolyl)phenyl]-2-(phenylmethylidyne)-, inner salt (CA INDEX NAME)



ACCESSION NUMBER: 2007:992805 CAPLUS
DOCUMENT NUMBER: 147:324396
TITLE: Recycled rubber compositions with low heat generation and their pneumatic tires
INVENTOR(S): Fukushima, Yasou; Nakamura, Kiji
PATENT ASSIGNEE(S): Bridgestone Corp., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 18pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2007224072	A	20070906	JP 2006-43586	20060221
PRIORITY APPLN. INFO.:			JP 2006-43586	20060221

AB Title compns., useful for heavy-load or off-road tires, comprise 100 parts rubbers and 0.1-30 parts compds. containing dipolar N-containing parts (Q) and O or S and N-containing 4-6-membered heterocyclic parts (B), and waste rubbers. Thus, a tire was manufactured from SBR (SBR 1500) 100, recycled rubber treated by a PAN method 10, and 4-(4,5-dihydro-2-oxazolyl)phenyl-N-phenylnitrone reactive to the SBR 0.5 part.
IT 883552-06-5 883552-07-6
RL: RCT (Reactant); RACT (Reactant or reagent)
(heavy-load or off-road tires with low heat generation manufactured from
N-containing heterocyclic compound-modified SBR and recycled rubbers)
RN 883552-06-5 CAPLUS
CN Hydrazinium, 1-[4-(4,5-dihydro-2-oxazolyl)phenyl]-2-(phenylmethylidyne)-, inner salt (CA INDEX NAME)



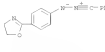
RN 883552-07-6 CAPLUS
CN Hydrazinium, 1-[4-(4,5-dihydro-2-thiazolyl)phenyl]-2-(phenylmethylidyne)-, inner salt (CA INDEX NAME)

L20 ANSWER 20 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2007:992804 CAPLUS
DOCUMENT NUMBER: 147:324385
TITLE: Rubber compositions with low heat generation and good workability and abrasion resistance and their pneumatic tires
INVENTOR(S): Nakamura, Eiji; Fukushima, Yasuo
PATENT ASSIGNEE(S): Bridgestone Corp., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 18pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

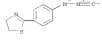
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2007224079	A	20070906	JP 2006-43583	20060221
PRIORITY APPLN. INFO.:			JP 2006-43583	20060221

AB Title compns., useful for heavy-load or off-road tires, comprise 100 parts rubbers, 0.1-70 parts 1,3-dipole compds. containing dipolar N-containing parts (Q) and O or S and N-containing 4-6-membered heterocyclic parts (B), and 5-90% SiO2 heat-treated with silicone oils. Thus, a tire was manufactured from natural rubber 100, di-Me silicone (KF 96)-treated SiO2 10, and 4-(4,5-dihydro-2-oxazolyl)phenyl-N-phenylnitrone reactive to the natural rubber and SiO2 0.5 part.
IT 883552-06-5 883552-07-6
RL: RCT (Reactant); RACT (Reactant or reagent)
(heavy-load or off-road tires with low heat generation and good abrasion resistance manufactured from N-containing heterocyclic compound-modified rubbers and SiO2)
RN 883552-06-5 CAPLUS
CN Hydrazinium, 1-[4-(4,5-dihydro-2-oxazolyl)phenyl]-2-(phenylmethylidyne)-, inner salt (CA INDEX NAME)



RN 883552-07-6 CAPLUS
CN Hydrazinium,
1-[4-(4,5-dihydro-2-thiazolyl)phenyl]-2-(phenylmethylidyne)-, inner salt (CA INDEX NAME)

L20 ANSWER 20 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)

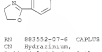


L20 ANSWER 21 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2007:992803 CAPLUS
DOCUMENT NUMBER: 147:324384
TITLE: Rubber compositions with low heat generation and good abrasion resistance and their pneumatic tires
INVENTOR(S): Nakamura, Eiji; Fukushima, Yasuo
PATENT ASSIGNEE(S): Bridgestone Corp., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 21pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

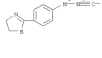
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2007224079	A	20070906	JP 2006-43583	20060221
PRIORITY APPLN. INFO.:			JP 2006-43583	20060221

AB Title compns., useful for heavy-load or off-road tires, comprises natural and/or synthetic rubbers 100, compds. containing dipolar N-containing parts (Q) and O or S and N-containing 4-6-membered heterocyclic parts (B) 0.1-80, SiO2, and compds. containing ≥1 groups reactive to natural or diene rubbers in mols. and ≥2 group adsorbing SiO2 0.1-20 parts. Thus, a tire tread was manufactured from natural rubber 100, SiO2 1, 4-(4,5-dihydro-2-oxazolyl)phenyl-N-phenylnitrone reactive to the natural rubber and SiO2 0.5, and trimellitic acid monoacrylate 1 part.
IT 883552-06-5 883552-07-6
RL: RCT (Reactant); RACT (Reactant or reagent)
(heavy-load or off-road tires with low heat generation and good abrasion resistance manufactured from N-containing heterocyclic compound-modified rubbers and SiO2)
RN 883552-06-5 CAPLUS
CN Hydrazinium, 1-[4-(4,5-dihydro-2-oxazolyl)phenyl]-2-(phenylmethylidyne)-, inner salt (CA INDEX NAME)



RN 883552-07-6 CAPLUS
CN Hydrazinium,
1-[4-(4,5-dihydro-2-thiazolyl)phenyl]-2-(phenylmethylidyne)-, inner salt (CA INDEX NAME)

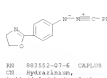
L20 ANSWER 21 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)



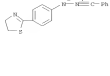
ACCESSION NUMBER: 2007:992798 CAPLUS
DOCUMENT NUMBER: 147:324383
TITLE: Rubber compositions with low heat generation and good workability and their pneumatic tires
INVENTOR(S): Nakamura, Eiji; Fukushima, Yasuo
PATENT ASSIGNEE(S): Bridgestone Corp., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 19pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2007224069	A	20070906	JP 2006-43582	20060221
PRIORITY APPLN. INFO.:			JP 2006-43582	20060221

AB Title compns., useful for heavy-load or off-road tires, comprise natural and/or synthetic rubbers 100, nanpds. containing dipolar N-containing parts (Q) and O- or S and N-containing 4-6-membered heterocyclic parts (B) 0.1-70, SiO2,
and partial esters manufactured from maleic anid and (poly)propylene glycol
derivs. 0.1-10 parts. Thus, a tire was manufactured from natural rubber 100,
SiO2 35, polypropylene glycol monododecyl ether monomaleate 0.5, and
4-(4,5-dihydro-2-oxazolyl)phenyl-N-phenylnitrone reactive to the natural
rubber and SiO2 0.5 part.
IT 883552-06-5 883552-07-6
RL: RCT (Reactant); RACT (Reactant or reagent)
(heavy-load or off-road tires with low heat generation manufactured from
N-containing heterocyclic compound-modified rubbers and SiO2)
RN 883552-06-5 CAPLUS
CN Hydrazinium, 1-[4-(4,5-dihydro-2-oxazolyl)phenyl]-2-(phenylmethylidyne)-, inner salt (CA INDEX NAME)



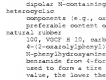
RN 883552-07-6 CAPLUS
CN Hydrazinium, 1-[4-(4,5-dihydro-2-thiazolyl)phenyl]-2-(phenylmethylidyne)-, inner salt (CA INDEX NAME)



ACCESSION NUMBER: 2007:992788 CAPLUS
DOCUMENT NUMBER: 147:324382
TITLE: Rubber compositions with cut, chipping, and wear resistance and their pneumatic tires having low heat buildup ability
INVENTOR(S): Nakamura, Eiji; Fukushima, Yasuo
PATENT ASSIGNEE(S): Bridgestone Corp., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 17pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2007224069	A	20070906	JP 2006-43581	20060221
PRIORITY APPLN. INFO.:			JP 2006-43581	20060221

AB Title compns. contain 100 parts rubbers, 0.1-50 parts compds. having dipolar N-containing components and O- or S-containing 4-6 N-based heterocyclic
components (e.g., oxazoline or thiazoline ones), and carbon fibers at preferable content of 1-50 parts. A composition (A) containing a natural rubber
100, VGCF H 10, carbon black (CB) 40, S 1.7, and
4-(2-oxazolyl)phenyl-N-phenylnitrone and II, prepared from N-phenylhydroxylamine and 4-(2-oxazolyl)benzaldehyde from corresponding benzamide from 4-formylbenzoyl chloride and 2-aminoethanol 0.5 part was used to form a tire tread showing heat buildup index (the higher the value, the lower the heat buildup) 35% higher than that of a tread prepared
from a VGCF H- and I-free A-similar composition (A') containing 50 phr CB; the A
and A' composition gave treads with comparable cut, chip, and wear resistance.
IT 883552-06-5 883552-07-6
RL: MOA (Modifier or additive use); USES (Uses)
(tire rubber compns. containing O- or S-containing dipolar polynitrogen cyclic
compds. for low heat buildup and chip/wear resistance)
RN 883552-06-5 CAPLUS
CN Hydrazinium, 1-[4-(4,5-dihydro-2-oxazolyl)phenyl]-2-(phenylmethylidyne)-, inner salt (CA INDEX NAME)



RN 883552-07-6 CAPLUS
CN Hydrazinium, 1-[4-(4,5-dihydro-2-thiazolyl)phenyl]-2-(phenylmethylidyne)-, inner salt (CA INDEX NAME)

L20 ANSWER 24 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2007:992784 CAPLUS
DOCUMENT NUMBER: 147:324381
TITLE: Rubber compositions with improved carbon black dispersibility and their pneumatic tires with low heat buildup and wear resistance
INVENTOR(S): Nakamura, Eiji; Fukuhara, Yasuo
PATENT ASSIGNEE(S): Bridgestone Corp., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 22pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2007224067	A	20070906	JP 2006-43580	20060221
PRIORITY APPLN. INFO.:			JP 2006-43580	20060221

AB Title compns. contain (a) natural rubber (NR) master batches prepared by mixing NR latexes with wet-dispersed carbon black (CB) slurry solns. and
showing (a1) the particle size distribution of fillers in the slurry solns. of volume-average diameter (Dv) of 525 μm and 9G vol% diameter (D90)
of 53G μm and (a2) 24M4DBP oil absorption retention (B-24M4DBP) of the filler after dried and recycled from the aqueous slurry solns of 93% of 24M4DBP oil absorption of the filler before dispersing in water and (b) 0.1-7G parts compds. having dipolar N components and O- or S-containing 4-6 N-based heterocyclic components (e.g., oxazoline or thiazoline ones). A compsn. (A) containing a master batch (hand drier-dried
mixture containing de-proteined NR latex and aqueous CB slurry with Da 7.9 μm,
DPG 12.0 μm, and R-24M4DBP 96.5%; at NR/CB of 10G:50), S 1.3, and 4-(2-oxazolylphenyl)-N-phenylnitrone [I; prepared from N-phenylhydroxylamine
and 4-(2-oxazolyl)benzaldehyde from corresponding benzamide from 4-(bromylbenzoyl chloride and 2-aminoethanol] 0.5 part was used to form a tire tread showing heat buildup index (the higher the value, the lower the
heat buildup) 95% and wear resistance index (the higher the value, the better the wear resistance) 1% higher than those of a tread prepared from a
master batch- and I-free A-similar composition containing aep. added NR and CB.
IT 883552-06-5 883552-07-6
RL: NOA (Nonfuel or additive use); USES (Uses)
(compns. containing carbon black/natural rubber masterbatches and O- or
S-containing dipolar polynitrogen cyclic compds. for tires with low heat
buildup and wear resistance)
RN 883552-06-5 CAPLUS
CN Hydrazinium, 1-[4-(4,5-dihydro-2-oxazolyl)phenyl]-2-(phenylmethylidyne)-, inner salt (CA INDEX NAME)

L20 ANSWER 24 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)

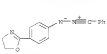
RN 883552-07-6 CAPLUS
CN Hydrazinium, 1-[4-(4,5-dihydro-2-thiazolyl)phenyl]-2-(phenylmethylidyne)-, inner salt (CA INDEX NAME)

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L20 ANSWER 25 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2007:993931 CAPLUS
DOCUMENT NUMBER: 147:324379
TITLE: Lug pattern-having pneumatic tires with low heat generation and good abrasion resistance
INVENTOR(S): Nakamura, Eiji; Fukuhara, Yasuo
PATENT ASSIGNEE(S): Bridgestone Corp., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 24pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2007223339	A	20070906	JP 2006-43584	20060221
PRIORITY APPLN. INFO.:			JP 2006-43584	20060221

AB The invention relates to title tires, which have plural lug grooves extending from each grounding part to equatorial planes of the tires, in the width directions ≤20-mm-wide thin grooves at center parts between 2 tire circumferences by connecting of the lug groove ends in the tire hoop directions, and at the center parts shallow grooves extending along the hoop directions, with reg. ratio 60% (excluding the shallow grooves) in the area accounting for 25% of the tread width) centering on equatorial planes comprising 1G0 parts natural and/or synthetic rubbers and 0.1-30 parts compds. containing dipolar N-containing parts
(Q) and O or S and N-containing 4-6-membered heterocyclic parts (B). The tires are useful for automobiles for construction. Thus, a tire was manufactured from a natural rubber modified with 4-(4,5-dihydro-2-oxazolyl)phenyl-N-phenylnitrone.
IT 883552-06-5 883552-07-6
RL: ACT (Reactant); RACT (Reactant or reagent)
(tires with low heat generation and good abrasion resistance for construction automobiles)
RN 883552-06-5 CAPLUS
CN Hydrazinium, 1-[4-(4,5-dihydro-2-oxazolyl)phenyl]-2-(phenylmethylidyne)-, inner salt (CA INDEX NAME)



RN 883552-07-6 CAPLUS
CN Hydrazinium, 1-[4-(4,5-dihydro-2-thiazolyl)phenyl]-2-(phenylmethylidyne)-, inner salt (CA INDEX NAME)

L20 ANSWER 25 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)

ACCESSION NUMBER: 2004:929809 CAPLUS
DOCUMENT NUMBER: 145:482541
TITLE: Synthesis, Photophysical, Photochemical, and Redox Properties of Nitrospiropyrans Substituted with Ru or Os Tris(bipyridine) Complexes
AUTHOR(S): Johka, Ron T. F.; Borio, Biljana; Hartl, Frantisek; Belser, Peter; De Cola, Luisa
CORPORATE SOURCE: Van't Hoff Institute for Molecular Sciences, University of Amsterdam, Amsterdam, 1018 WS, Neth.
SOURCE: Inorganic Chemistry (2004), 43(20), 6326-8341
CODEN: INOKAq; ISSN: 0020-1669
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 145:482541
AB Photochromic nitrospiropyrans substituted with 2,2'-bipyridine (bpy), [Ru(bpy)3]2+, and [Os(bpy)3]2+ groups were synthesized, and their photophys., photochem., and redox properties studied. Substitution of the spiropyran with the metal complex moiety results in strongly decreased efficiency of the ring-opening process as a result of energy transfer from the excited spiropyran to the metal center. The lowest excited triplet state of the spiropyran in its open merocyanine form is lower in energy than the excited triplet MLCT level of the [Ru(bpy)3]2+ moiety but higher in energy than for [Os(bpy)3]2+, resulting in energy transfer from the excited Ru center to the spiropyran but inversely in the Os case. The open merocyanine form reduces and oxidizes electrochem. more easily than the closed nitrospiropyran. Like photoexcitation, electrochem. activation also causes opening of the spiropyran ring by 1at reducing the closed form and subsequently reoxidizing the corresponding radical anion in two well-resolved anodic steps. The substitution of the spiropyran with a Ru or Os metal center does not affect the efficiency of this electrochem. induced ring-opening process, different from the photochem. path.
IT 562098-19-3D
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(for preparation of bipyridyl substituted nitrospiropyran)
RN 562098-19-3 CAPLUS
CN Methanexor, diphenyl-, [4-[2,2'-bipyridin]-4-ylphenyl]hydrazone (9CI) (CA INDEX NAME)

OS.CITING REF COUNT: 22 THERE ARE 22 CAPLUS RECORDS THAT CITE THIS RECORD (22 CITINGS)
REFERENCE COUNT: 83 THERE ARE 83 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ACCESSION NUMBER: 2006:365976 CAPLUS
DOCUMENT NUMBER: 144:392611
TITLE: Polymer-filler coupling additives
INVENTOR(S): Fukushima, Yasuo; Koch, Russell W.; Bergenrother, William L.; Araki, Shunji
PATENT ASSIGNEE(S): Bridgestone Corporation, Japan
SOURCE: U.S. Pat. Appl. Publ., 19 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20060084730	A1	20060420	US 2004-969573	20041020
US 7186845	B2	20070306		
WO 2006045698	A2	20060427	WO 2005-US38018	20051020
WO 2006045698	A3	20060526		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

EP 1802593	A2	20070704	EP 2005-815966	20051020
R: DE, ES, FR, GB, IT				
CN 101084202	A	20071205	CN 2005-80043792	20051020
JP 2008517071	T	20080522	JP 2007-538097	20051020

PRIORITY APPLN. INFO.: US 2004-969573 A 20041020
WO 2005-US38018 W 20051020

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): MARPAT 144:392611
AB Dispersion of filler(s) in polymeric compns. are improved by the use of a polymer-filler coupling compound, Q-T-B, wherein Q comprises a dipolar nitrogen-containing moiety that can form a 1,3 dipolar addition to an unsatd. carbon-carbon bond; B is an oxazolone, thiazolone, alkoxysilane or allyltin moiety, and A is a linking atom or group that forms a bridge between Q and B. The compds. are useful in rubber compns.
IT 883552-06-5 883552-07-6
RL: NUA (Modifier or additive use); USES (Uses)
(polymer-filler coupling additives)
RN 883552-06-5 CAPLUS
CN Hydrazinium, 1-[4-[4,5-dihydro-2-oxazolyl)phenyl]-2-(phenylmethylidyne)-, inner salt (CA INDEX NAME)

RN 883552-07-6 CAPLUS
CN Hydrazinium, 1-[4-[4,5-dihydro-2-thiazolyl)phenyl]-2-(phenylmethylidyne)-, inner salt (CA INDEX NAME)

REFERENCE COUNT: 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 28 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2005:212578 CAPLUS
DOCUMENT NUMBER: 142:269164
TITLE: Electrophotographic photoreceptors having excellent mechanical strength and electric properties
INVENTOR(S): Daichi, Atsushi; Kikuchi, Norihiro
PATENT ASSIGNEE(S): Canon Inc., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 22 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2005062301	A	20050310	JP 2003-289711	20030808
PRIORITY APPLN. INFO.:			JP 2003-289711	20030808

OTHER SOURCE(S): MARPAT 142:269164

AB The photoreceptors have photoconductive surface layers containing chain-polymerized and -nonpolymerizable the 1st and the 2nd charge-transporting compds. A and B at A/B (weight) 100:(5.0-45.0). The 1st charge-transporting compds. may be P1aA(ZP2d)b (A = charge-transporting group; P1, P2 = chain-polymerizable functional group; a, b, d = 0, ≥1; a + b × d ≥1). The 2nd charge-transporting compds. may be triarylamines. The photoreceptors exhibit low ghost level initially and after prescribed durability test and excellent scratch resistance.

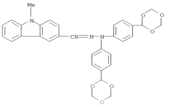
IT 845882-61-3P
RL: DEV (Device component use); IMF (Industrial manufacture); PREP (Preparation); USES (Uses)
(outermost layers, charge transporting materials; electrophotog. photoreceptors having cured charge-transporting outermost layers with good scratch resistance)

RN 845882-61-3 CAPLUS
CN 9H-Carbazole-3-carboxaldehyde, 9-methyl-, bis[4-(1,3,5-trioxan-2-yl)phenyl]hydrazone, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 845882-60-2
CMF C32 H29 N3 O6

L20 ANSWER 28 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)



L20 ANSWER 29 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2004:857547 CAPLUS
DOCUMENT NUMBER: 141:350174
TITLE: Preparation of benzaldehyde or heterocycle carboxaldehyde hydrazone derivatives as inhibitors of agglutination and/or deposition of an amyloid protein or amyloid-like protein
INVENTOR(S): Kawagoe, Keiichi; Motoki, Kayoko; Odagiri, Takashi; Suzuki, Nobuyuki; Chen, Chun-Jen; Mimura, Tetsuya
PATENT ASSIGNEE(S): Daiichi Pharmaceutical Co., Ltd., Japan
SOURCE: PCT Int. Appl., 236 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004087641	A1	20041014	WO 2004-JP4607	20040331
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RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2521056	A1	20041014	CA 2004-2521056	20040331
EP 1612204	A1	20060104	EP 2004-724752	20040331
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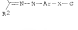
US 20060276433	A1	20061207	US 2005-551414	20050930
PRIORITY APPLN. INFO.:			JP 2003-94257 A	20030331
			WO 2004-JP4607 W	20040331

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): MARPAT 141:350174
GI



I

AB Compds. represented by the general formula (I), salts thereof, or solvates of either [R1, R2 = H, alkyl, alkenyl, alkynyl, aralkyl, NH2, alkylamino, cyano, halo, haloalkyl, haloalkenyl, haloalkynyl, CO2H, alkoxycarbonyl, CONH2, N-alkylcarbamoyl, N,N-dialkylcarbamoyl, N-hydroxyalkylcarbamoyl, each (un)substituted aryl, (un)saturated 5- to 7-membered heterocyclyl, (un)saturated bi- or tricyclic condensed heterocyclyl, arylalkenyl, (un)saturated

L20 ANSWER 29 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)

heterocyclylalkenyl, or (un)satd. bi- or tricyclic condensed heterocyclylalkenyl;R3 = H, (un)substituted alkyl, acyl, alkoxycarbonyl; Ar = a divalent group derived from arom. hydrocarbon, (un)satd. 5- to 7-membered heterocyclic group, or (un)satd. bi- or tricyclic condensed heterocyclic group; X = a single bond, a single bond, each (un)substituted linear or branched C1-3 alkylene, C1-3 alkenylene, or C1-3 alkynylene, CO; G = halo, haloalkyl, haloalkenyl, haloalkynyl, alkoxy, alkoxycarbonyl, N-alkylamino, N,N-dialkylamino, each (un)substituted (un)satd. bi- or tricyclic condensed hydrocarbyl, (un)satd. 5- to 7-membered heterocyclyl, or (un)satd. bi- or tricyclic heterocyclyl] are prepd. Also disclosed is (1) an agent for inhibiting the agglutination and/or deposition of an amyloid protein or amyloid-like protein or (2) a preventive and/or remedy for conformational diseases or diseases caused by amyloid accumulation, which contains the compd. I, its salt, or solvate thereof. In particular, disclosed is a preventive and/or remedy for Alzheimer's disease, Down's syndrome, Creutzfeldt-Jakob disease, type II diabetes, dialysis amyloidosis, AA amyloidosis, Gerstmann-Straussler-Scheinker (GSS) syndrome, Muckle-Wells syndrome, localized atrial amyloidosis, thyroid medullary carcinoma, skin amyloidosis, localized tuberous amyloidosis, AL amyloidosis, AH amyloidosis, familial Mediterranean fever, Parkinson's disease, tauopathy, ALS, or CAG repeat disease. A radiodiagnostic agent contg. radionuclide-labeled, in particular radioactive iodine-labeled compd. I is also disclosed. Thus, 1.0 g 4-(oxazol-5-yl)phenylhydrazine and 0.61 g 4-pyridinecarboxaldehyde were heated in ethanol at reflux overnight to give, after recrystn. from ethanol, 1.03 g 4-pyridinecarboxaldehyde N-[4-(oxazol-5-yl)phenyl]hydrazone (II). II inhibited the formation of amyloid from amyloid β protein with IC50 of 2.94 μM vs. 0.87 and 3.23 μM for Cogo Red and 2-(1,1-dicyanopropen-2-yl)-6-dimethylaminonaphthalene (DDNP), resp.

IT 774236-96-3P 774237-62-6P
RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(preparation of benzaldehyde or heterocycle carboxaldehyde hydrazone derivs. as inhibitors of agglutination and/or deposition of amyloid protein or amyloid-like protein)

RN 774236-96-3 CAPLUS
CN Benzoic acid, 4-[[2-[4-(5-oxazolyl)phenyl]hydrazinylidene]methyl]- (CA INDEX NAME)

RN 774237-62-6 CAPLUS
CN Benzaldehyde, 3-iodo-4-[(methylamino)methyl]-, 2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)

IT 774236-74-7P 774236-80-5P 774236-81-6P
774236-84-9P 774236-85-0P 774236-86-1P
774236-87-2P 774236-88-3P 774236-89-4P
774236-90-7P 774236-94-1P 774236-97-4P
774237-05-7P 774237-06-8P 774237-07-9P
774237-08-0P 774237-09-1P 774237-10-4P
774237-11-5P 774237-12-6P 774237-13-7P
774237-14-8P 774237-15-9P 774237-16-0P
774237-17-1P 774237-18-2P 774237-19-3P

L20 ANSWER 29 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)
774237-20-4P 774237-21-7P 774237-22-8P
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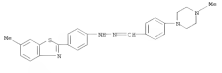
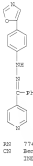
774238-02-7P 774238-07-2P 774238-08-3P
774238-09-4P 774238-06-1P 774238-07-2P
774238-11-9P 774238-13-0P 774238-14-1P
774238-15-2P 774238-16-3P 774238-17-4P
774238-18-5P 774238-19-6P 774238-20-9P
774238-21-0P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of benzaldehyde or heterocycle carboxaldehyde hydrazone derivs. as inhibitors of agglutination and/or deposition of amyloid protein or amyloid-like protein)

RN 774236-74-7 CAPLUS
CN Benzaldehyde, 4-(4-methyl-1-piperazinyl)-, 2-[4-(4-methyl-2-benzothiazolyl)phenyl]hydrazone (CA INDEX NAME)



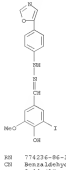
RN 774236-80-5 CAPLUS
CN Methanone, phenyl-4-pyridinyl-, 2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)



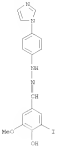
RN 774236-81-6 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, 2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)

RN 774236-84-9 CAPLUS
CN Benzaldehyde, 2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)

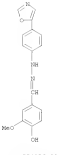
RN 774236-85-0 CAPLUS
CN Benzaldehyde, 4-hydroxy-3-iodo-5-methoxy-, 2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)



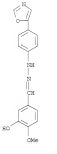
RN 774236-86-1 CAPLUS
CN Benzaldehyde, 4-hydroxy-3-iodo-5-methoxy-, 2-[4-(1H-imidazol-1-yl)phenyl]hydrazone (CA INDEX NAME)



RN 774236-83-2 CAPLUS
CN Benzaldehyde, 4-hydroxy-3-methoxy-, 2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)

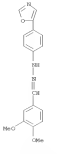


RN 774236-88-7 CAPLUS
CN Benzaldehyde, 3,4-dimethoxy-, 2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)

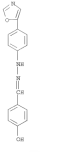


RN 774236-94-3 CAPLUS
CN Benzaldehyde, 4-[(2-hydroxyethyl)methylamino]-, 2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)

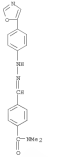
RN 774236-97-4 CAPLUS
CN Benzamide, N,N-dimethyl-4-[[2-[4-(5-oxazolyl)phenyl]hydrazinylidene]methyl]- (CA INDEX NAME)



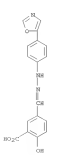
RN 774236-89-4 CAPLUS
CN Benzaldehyde, 4-hydroxy-, 2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)



RN 774236-90-7 CAPLUS
CN Benzaldehyde, 3-hydroxy-4-methoxy-, 2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)

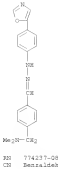


RN 774237-05-7 CAPLUS
CN Benzoic acid, 2-hydroxy-5-[[2-[4-(5-oxazolyl)phenyl]hydrazinylidene]methyl]- (CA INDEX NAME)



RN 774237-06-8 CAPLUS
CN Benzaldehyde, 4-[[2-fluoroethyl)methylamino]-, 2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)

RN 774237-07-9 CAPLUS
CN Benzaldehyde, 4-[(dimethylamino)methyl]-, 2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)



RN 774237-08-0 CAPLUS
CN Benzaldehyde, 4-(4-methyl-1-piperazinyl)-, 2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)

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RN 774237-10-4 CAPLUS
CN Benzaldehyde, 4-(2-pyrazinyl)-, 2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)

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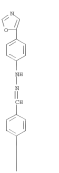

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RN 774237-09-1 CAPLUS
CN 1-Piperazinecarboxylic acid, 4-[4-[[2-[4-(5-oxazolyl)phenyl]hydrazinylidene]methyl]phenyl]-, 1,1-dimethylethyl ester (CA INDEX NAME)

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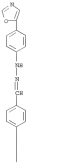

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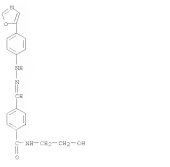
RN 774237-11-5 CAPLUS
CN Benzamide, N-(2-hydroxyethyl)-4-[[2-[4-(5-oxazolyl)phenyl]hydrazinylidene]methyl]- (CA INDEX NAME)



RN 774237-12-6 CAPLUS
CN Benzaldehyde, 4-[4-morpholinylmethyl]-, 2-[4-[5-oxazolyl]phenyl]hydrazone (CA INDEX NAME)

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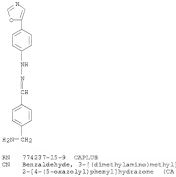
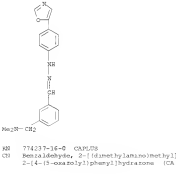


RN 774237-15-9 CAPLUS
CN Benzaldehyde, 3-[(dimethylamino)methyl]-, 2-[4-[5-oxazolyl]phenyl]hydrazone (CA INDEX NAME)



RN 774237-16-0 CAPLUS
CN Benzaldehyde, 2-[(dimethylamino)methyl]-, 2-[4-[5-oxazolyl]phenyl]hydrazone (CA INDEX NAME)

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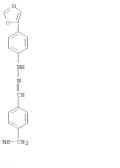
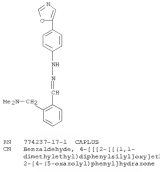
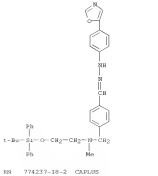
RN 774237-13-7 CAPLUS
CN Carbamic acid, [[4-[[[4-[5-oxazolyl]phenyl]hydrazono]methyl]phenyl]methyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



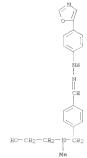
RN 774237-14-8 CAPLUS
CN Benzaldehyde, 4-[aminomethyl]-, 2-[4-[5-oxazolyl]phenyl]hydrazone (CA INDEX NAME)



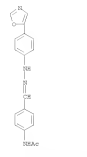
RN 774237-17-1 CAPLUS
CN Benzaldehyde, 4-[[2-[[1,1-dimethylethyl]diphenylsilyl]oxy]ethyl]methylamino]methyl]-, 2-[4-[5-oxazolyl]phenyl]hydrazone (CA INDEX NAME)



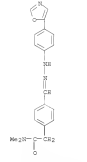
RN 774237-18-2 CAPLUS
CN Benzaldehyde, 4-[[2-hydroxyethyl)methylamino]methyl]-, 2-[4-[5-oxazolyl]phenyl]hydrazone (CA INDEX NAME)



RN 774237-19-3 CAPLUS
CN Acetamide,
N-[4-[[2-[4-(5-oxazolyl)phenyl]hydrazinylidene]methyl]phenyl]-
(CA INDEX NAME)



RN 774237-20-6 CAPLUS
CN Benzaldehyde, 4-[[[2-fluoroethyl]methylamino]methyl]-,
2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)



RN 774237-23-9 CAPLUS
CN Benzaldehyde, 4-[[4-methyl-2-piperazinyl)carbonyl]-,
1-[2-[4-(5-oxazolyl)phenyl]hydrazone] (CA INDEX NAME)

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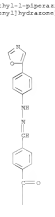
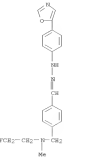
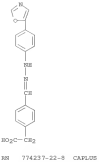


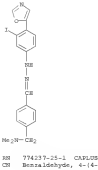


RN 774237-21-7 CAPLUS
CN Benzeneacetic acid, 4-[[2-[4-(5-oxazolyl)phenyl]hydrazinylidene]methyl]-
(CA INDEX NAME)



RN 774237-22-8 CAPLUS
CN Benzeneacetamide, N,N-dimethyl-4-[[2-[4-(5-
oxazolyl)phenyl]hydrazinylidene]methyl]- (CA INDEX NAME)

RN 774237-24-0 CAPLUS
CN Benzaldehyde, 4-[(dimethylamino)methyl]-,
2-[3-iodo-4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)



RN 774237-25-1 CAPLUS
CN Benzaldehyde, 4-[(4-methyl-1-piperazinyl)-,
2-[3-iodo-4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)

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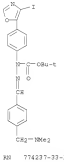
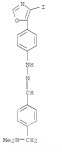
RN 774237-30-8 CAPLUS
CN Benzaldehyde, 4-[(dimethylamino)methyl]-3-iodo-, 2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)

RN 774237-31-9 CAPLUS
CN Hydrazinecarboxylic acid, 2-[[4-[(dimethylamino)methyl]phenyl]methylene]-1-[4-(5-oxazolyl)phenyl]-, 1,1-dimethylethyl ester (CA INDEX NAME)

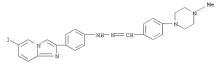
RN 774237-32-0 CAPLUS
CN Hydrazinecarboxylic acid, 2-[[4-[(dimethylamino)methyl]phenyl]methylene]-1-[4-[4-iodo-5-oxazolyl)phenyl]-, 1,1-dimethylethyl ester (CA INDEX NAME)



RN 774237-33-1 CAPLUS
CN Benzaldehyde, 4-[(dimethylamino)methyl]-, 2-[4-(4-iodo-5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)

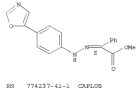


RN 774237-39-7 CAPLUS
CN Benzaldehyde, 4-(4-methyl-1-piperazinyl)-, 2-(4-(6-iodoimidazo[1,2-a]pyridin-2-yl)phenyl)hydrazone (CA INDEX NAME)



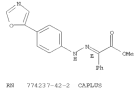
RN 774237-40-0 CAPLUS
CN Benzeneacetic acid, a-[2-[4-(5-oxazolyl)phenyl]hydrazinylidene]-, methyl ester, (aZ)- (CA INDEX NAME)

Double bond geometry as shown.



RN 774237-41-1 CAPLUS
CN Benzeneacetic acid, a-[2-[4-(5-oxazolyl)phenyl]hydrazinylidene]-, methyl ester, (aE)- (CA INDEX NAME)

Double bond geometry as shown.



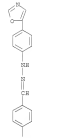
RN 774237-42-2 CAPLUS
CN Benzeneacetic acid, a-[2-[4-(5-oxazolyl)phenyl]hydrazinylidene]- (CA INDEX NAME)

RN 774237-43-3 CAPLUS
CN Benzeneacetamide, N,N-dimethyl-a-[2-[4-[5-oxazolyl]phenyl]hydrazinylidene]- (CA INDEX NAME)

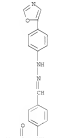
RN 774237-47-7 CAPLUS
CN Benzaldehyde, 4-fluoro-, 2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)

RN 774237-48-8 CAPLUS
CN Benzaldehyde, 4-amino-, 2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)

RN 774237-49-9 CAPLUS
CN Benzenesulfonamide, 4-[[2-[4-(5-oxazolyl)phenyl]hydrazinylidene]methyl]- (CA INDEX NAME)



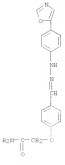
RN 774237-50-2 CAPLUS
CN Methanesulfonamide, N-[4-[[2-[4-(5-oxazolyl)phenyl]hydrazinylidene]methyl]phenyl]- (CA INDEX NAME)



RN 774237-51-3 CAPLUS
CN Sulfamide, N,N-dimethyl-N'-[4-[[2-[4-(5-oxazolyl)phenyl]hydrazinylidene]methyl]phenyl]- (CA INDEX NAME)

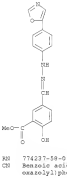
RN 774237-52-4 CAPLUS
CN Benzaldehyde, 4-[2-(dimethylamino)ethoxy]-, 2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)

RN 774237-53-5 CAPLUS
CN Acetamide, 2-[4-[[2-[4-(5-oxazolyl)phenyl]hydrazinylidene]methyl]phenoxy]- (CA INDEX NAME)

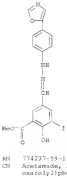


RN 774237-54-6 CAPLUS
CN Acetamide, N,N-dimethyl-2-[4-[[2-[4-[5-oxazolyl]phenyl]hydrazinylidene]methyl]phenoxy]- (CA INDEX NAME)

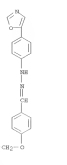
RN 774237-55-7 CAPLUS
CN Acetic acid, 2-[4-[[2-[4-[5-oxazolyl]phenyl]hydrazinylidene]methyl]phenoxy]-, 1,1-dimethylethyl ester
(CA INDEX NAME)



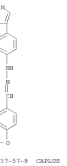
RN 774237-58-0 CAPLUS
CN Benzoic acid, 2-hydroxy-3-iodo-5-[[2-[4-[5-oxazolyl]phenyl]hydrazinylidene]methyl]-, methyl ester (CA INDEX NAME)



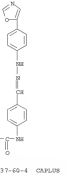
RN 774237-59-1 CAPLUS
CN Acetamide, 2-(dimethylamino)-N-[4-[[2-[4-[5-oxazolyl]phenyl]hydrazinylidene]methyl]phenyl]- (CA INDEX NAME)



RN 774237-56-8 CAPLUS
CN Acetic acid, 2-[4-[[2-[4-[5-oxazolyl]phenyl]hydrazinylidene]methyl]phenoxy]- (CA INDEX NAME)



RN 774237-57-9 CAPLUS
CN Benzoic acid, 2-hydroxy-5-[[2-[4-[5-oxazolyl]phenyl]hydrazinylidene]methyl]-, methyl ester (CA INDEX NAME)



RN 774237-60-4 CAPLUS
CN Benzaldehyde, 4-[(methylamino)methyl]-, 2-[4-[5-oxazolyl]phenyl]hydrazone
(CA INDEX NAME)

RN 774237-61-5 CAPLUS
CN Benzaldehyde, 3-iodo-4-[1-piperazinyl]-, 2-[4-[5-oxazolyl]phenyl]hydrazone
(CA INDEX NAME)

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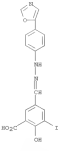
RN 774237-72-8 CAPLUS
CN Benzaldehyde, 4-[3-aminoethyl]-, 2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)

RN 774237-73-9 CAPLUS
CN Benzoic acid, 2-hydroxy-3-iodo-5-[[2-[4-(5-oxazolyl)phenyl]hydrazinylidene]methyl]- (CA INDEX NAME)



RN 774237-76-2 CAPLUS
CN Benzaldehyde, 4-[4-[dimethylamino)-1-piperidinyl]-3-iodo-, 2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)

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RN 774237-82-0 CAPLUS
CN Benzeneacetonitrile, a-[2-[4-(5-oxazolyl)phenyl]hydrazinylidene]- (CA INDEX NAME)

RN 774237-83-1 CAPLUS
CN Benzenecarboximidic acid, 2-[4-(5-oxazolyl)phenyl]hydrazide (CA INDEX NAME)

RN 774237-88-6 CAPLUS
CN Benzaldehyde, 4-[1-piperazinyl]-, 2-[3-iodo-4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)

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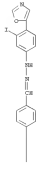
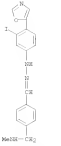


PAGE 2-A

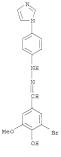
RN 774237-89-7 CAPLUS
CN Benzaldehyde, 4-[(methylamino)methyl]-,
2-[3-iodo-4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)



RN 774238-00-5 CAPLUS
CN Benzaldehyde, 4-hydroxy-3-methoxy-,
2-[4-(1H-imidazol-1-yl)phenyl]hydrazone (CA INDEX NAME)

RN 774238-01-6 CAPLUS
CN Benzaldehyde, 3-iodo-4,5-dimethoxy-,
2-[4-(1H-imidazol-1-yl)phenyl]hydrazone (CA INDEX NAME)

RN 774238-02-7 CAPLUS
CN Benzaldehyde, 3-bromo-4-hydroxy-5-methoxy-,
2-[4-(1H-imidazol-1-yl)phenyl]hydrazone (CA INDEX NAME)

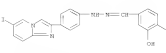


RN 774238-03-8 CAPLUS
CN Benzaldehyde, 5-bromo-2-hydroxy-3-methoxy-,
2-[4-(1H-imidazol-1-yl)phenyl]hydrazone (CA INDEX NAME)

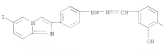
RN 774238-04-9 CAPLUS
CN Benzaldehyde, 3-bromo-5-methoxy-,
2-[4-(1H-imidazol-1-yl)phenyl]hydrazone
(CA INDEX NAME)

RN 774238-05-0 CAPLUS
CN Benzaldehyde, 4-hydroxy-3,5-dimethoxy-,
2-[4-(1H-imidazol-1-yl)phenyl]hydrazone (CA INDEX NAME)

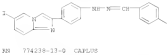
RN 774238-06-1 CAPLUS
CN Benzaldehyde, 3,4-dihydroxy-, 2-[4-(6-iodoimidazo[1,2-a]pyridin-2-yl)phenyl]hydrazone (CA INDEX NAME)



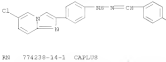
RN 774238-07-2 CAPLUS
CN Benzoic acid, 2-hydroxy-4-[[2-[4-(6-iodoimidazo[1,2-a]pyridin-2-yl)phenyl]hydrazinylidene]methyl]- (CA INDEX NAME)



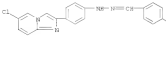
RN 774238-12-9 CAPLUS
CN Benzaldehyde, 4-[(methylamino)methyl]-, 2-[4-(6-iodoimidazo[1,2-a]pyridin-2-yl)phenyl]hydrazone (CA INDEX NAME)



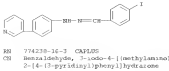
RN 774238-13-0 CAPLUS
CN Benzaldehyde, 4-[1-aminoethyl]-, 2-[4-(6-chloroimidazo[1,2-a]pyridin-2-yl)phenyl]hydrazone (CA INDEX NAME)



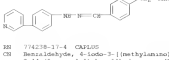
RN 774238-14-1 CAPLUS
CN Benzaldehyde, 4-[(methylamino)methyl]-, 2-[4-(6-chloroimidazo[1,2-a]pyridin-2-yl)phenyl]hydrazone (CA INDEX NAME)



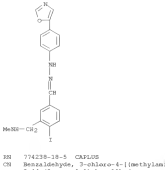
RN 774238-15-2 CAPLUS
CN Benzaldehyde, 4-iodo-, 2-[4-(3-pyridinyl)phenyl]hydrazone (CA INDEX NAME)



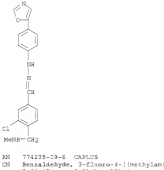
RN 774238-16-3 CAPLUS
CN Benzaldehyde, 3-iodo-4-[(methylamino)methyl]-, 2-[4-(3-pyridinyl)phenyl]hydrazone (CA INDEX NAME)



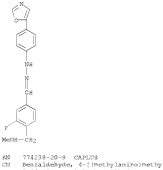
RN 774238-17-4 CAPLUS
CN Benzaldehyde, 4-iodo-3-[(methylamino)methyl]-, 2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)



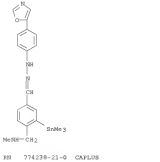
RN 774238-18-5 CAPLUS
CN Benzaldehyde, 3-chloro-4-[(methylamino)methyl]-, 2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)



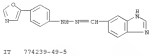
RN 774238-19-6 CAPLUS
CN Benzaldehyde, 3-fluoro-4-[(methylamino)methyl]-, 2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)



RN 774238-20-9 CAPLUS
CN Benzaldehyde, 4-[(methylamino)methyl]-3-(trimethylstannyl)-, 2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)



RN 774238-21-0 CAPLUS
CN 1H-Benzimidazole-6-carboxaldehyde, 2-[4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)



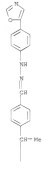
IT 774239-49-5
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of benzaldehyde or heterocycle carboxaldehyde hydrazone derivs. as inhibitors of agglutination and/or deposition of amyloid protein or amyloid-like protein)
RN 774239-49-5 CAPLUS
CN Acetanude, 2,2,2-trifluoro-N-methyl-N-[[4-[[2-[4-(5-oxazolyl)phenyl]hydrazinylidene]methyl]-2-(trimethylstannyl)phenyl]methyl]- (CA INDEX NAME)

IT 774238-91-4P 774238-95-8P 774239-12-2P
774239-22-4P 774239-38-2P 774239-43-3P
774239-57-5P 774239-58-7P 774239-63-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of benzaldehyde or heterocycle carboxaldehyde hydrazone derivs. as inhibitors of agglutination and/or deposition of amyloid protein or amyloid-like protein)

RN 774238-91-4 CAPLUS
CN Carbamic acid, methyl[[4-[[[4-[5-oxazolyl]phenyl]hydrazono]methyl]phenyl]methyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

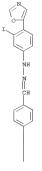
RN 774238-95-8 CAPLUS
CN 1-Piperazinecarboxylic acid, 4-[2-iodo-4-[[2-[4-[5-oxazolyl]phenyl]hydrazinylidene]methyl]phenyl]-, 1,1-dimethylethyl ester (CA INDEX NAME)

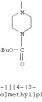
RN 774239-12-2 CAPLUS
CN Imidodicarbonic acid, 2-[1-[4-[[2-[4-[5-oxazolyl]phenyl]hydrazinylidene]methyl]phenyl]ethyl]-, 1,3-bis(1,1-dimethylethyl) ester (CA INDEX NAME)



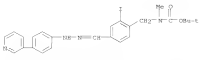
RN 774239-22-4 CAPLUS
CN 1-Piperazinecarboxylic acid, 4-[4-[[2-[3-iodo-4-[5-

oxazolyl]phenyl]hydrazinylidene]methyl]phenyl]-, 1,1-dimethylethyl ester (CA INDEX NAME)

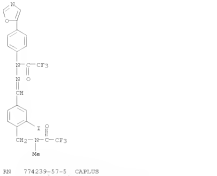




RN 774239-38-2 CAPLUS
CN Carbamic acid, [[2-iodo-4-[[[4-[3-pyridinyl]phenyl]hydrazono]methyl]phenyl]methyl]methyl-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

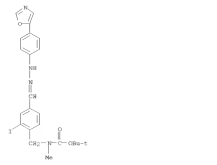


RN 774239-47-3 CAPLUS
CN Acetic acid, 2,2,2-trifluoro-, 2-[[3-iodo-4-[(methyl{2,2,2-trifluoroacetyl}amino)methyl]phenyl]methylene]-1-[4-(5-oxazolyl)phenyl]hydrazide (CA INDEX NAME)

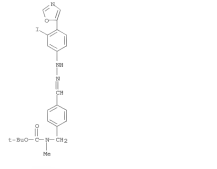


RN 774239-57-5 CAPLUS
CN Carbamic acid, [[2-iodo-4-[[[4-(5-oxazolyl)phenyl]hydrazono]methyl]phenyl]methyl]methyl-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

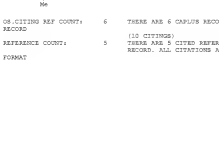
CR CITING REF COUNT: 6 THERE ARE 6 CAPLUS RECORDS THAT CITE THIS RECORD (10 CITINGS)
REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT



RN 774239-59-7 CAPLUS
CN Carbamic acid, [[4-[[[3-iodo-4-[5-oxazolyl]phenyl]hydrazono]methyl]phenyl]methyl]methyl-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



RN 774239-63-3 CAPLUS
CN Carbamic acid, [[2-fluoro-4-[[[4-[5-oxazolyl]phenyl]methyl]methyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



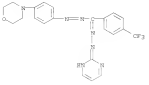
ACCESSION NUMBER: 2004:218662 CAPLUS
DOCUMENT NUMBER: 140:261478
TITLE: Optical recording material containing formazan metal chelate, recording method and apparatus
INVENTOR(S): Tomura, Tatsuya; Sato, Tsutomu; Ueno, Yasumoru; Noguchi, Takashi
PATENT ASSIGNEE(S): Ricoh Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 33 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2004082635	A	20040318	JP 2002-249619	20020828
JP 4087194	B2	20080521		
PRIORITY APPLN. INFO.:			JP 2002-249619	20020828

OTHER SOURCE(S): MARPAT 140:261478
AB The material comprises a support coated with a recording layer containing (A) ≥2 dyes selected from formazan metal chelate compound, azo metal chelate compound and cyanine compound, and (B) formazan metal chelate compound having longer film absorption spectra than that of A. The optical recording method and apparatus using the material and recorded by 600-720 nm wavelength light are also claimed. The material shows good lightfastness, storage stability, and wavelength dependence on recording is prevented.
IT 473299-38-2D, chelate with nickel 573714-10-0D, chelate with nickel
RL: TEM (Technical or engineered material use); USES (Uses)
(optical recording material containing formazan metal chelate, azo metal chelate, and/or cyanine compound)
RN 473299-38-2 CAPLUS
CN Methanone, [2-[4-(4-morpholinyl)phenyl]diazenyl]phenyl-, 2-(2-pyrimidinyl)hydrazone (CA INDEX NAME)

RN 573714-10-0 CAPLUS
CN Methanone, [2-[4-(4-morpholinyl)phenyl]diazenyl]4-(trifluoromethyl)phenyl]-, 2-(2-pyrimidinyl)hydrazone (CA INDEX NAME)

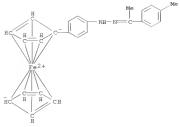
L20 ANSWER 30 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)



L29 ANSWER 33 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2002:945539 CAPLUS
DOCUMENT NUMBER: 140:10705
TITLE: Optical disks capable of high-density recording/readout with blue lasers and anines therefor
INVENTOR(S): Ishida, Tsutomu; Shiozaki, Hiroyuki; Ogino, Akira; Kaike, Masashi
PATENT ASSIGNEE(S): Mitsui Chemicals Inc., Japan; Yamamoto Chemicals Inc.
SOURCE: Jpn. Kokai Tokkyo Koho, 66 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

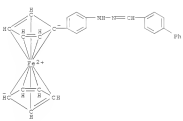
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002342487	A	20021203	JP 2002-153756	20020528
PRIORITY APPLN. INFO.:			JP 2002-153756	20020528

OTHER SOURCE(S): MARPAT 140:10705
AB The disks have R1 recording layer containing AlHKk1XlA2 [A1, A2 = aryl, metallocenyl; Al and/or A2 = metallocenylaryl); X1, X2 = N, methine] as recording dyes. The disks show good weather and heat moisture resistance.
IT 628279-73-2 628279-76-5 628279-80-1
628280-26-2
RL: TEM (Technical or engineered material use); USES (Uses)
(optical disks containing metallocenylarylamine dyes for high-d. recording/readout with blue lasers)
RN 628279-73-2 CAPLUS
CN Ferrocene, [4-[[1-(4-methylphenyl)ethylidene]hydrazino]phenyl]- (9CI) (CA INDEX NAME)

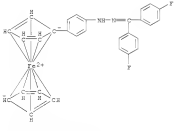


RN 628279-76-5 CAPLUS
CN Ferrocene, [4-[[1,1'-biphenyl]-4-ylmethylene)hydrazino]phenyl]- (9CI)

L20 ANSWER 31 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)
(CA INDEX NAME)

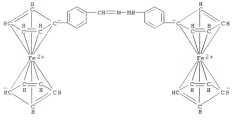


RN 628279-80-1 CAPLUS
CN Ferrocene, [4-[[bis(4-fluorophenyl)methylene]hydrazino]phenyl]- (9CI) (CA INDEX NAME)



RN 628280-26-2 CAPLUS
CN Ferrocene, [4-[[(4-ferrocenylphenyl)hydrazono]methyl]phenyl]- (9CI) (CA INDEX NAME)

L20 ANSWER 31 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)



L20 ANSWER 32 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2003:632743 CAPLUS
DOCUMENT NUMBER: 139:171330
TITLE: Optical recording medium, optical recording method and optical recording device
INVENTOR(S): Noguchi, Soh; Satoh, Tsutomu; Tomura, Tatsuya; Ueno, Yasunobu; Yashiro, Tohru; Ishimi, Tomomi; Shimizu, Ikuo; Kinugasa, Motoharu; Toyoda, Hiroshi; Yamada, Shiho
PATENT ASSIGNEE(S): Ricoh Company, Ltd., Japan; Kyowa Hakko Kogyo Co., Ltd.; Kyowa Yuka Co., Ltd.
SOURCE: Eur. Pat. Appl., 45 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1335357	A1	20030813	EP 2003-2913	20030210
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
JP 2003335060	A	20031125	JP 2002-143691	20020517
JP 3739722	B2	20060125		
JP 2003305958	A	20031028	JP 2002-148122	20020522
JP 3739724	B2	20060125		
US 20030206514	A1	20031106	US 2003-357813	20030204
US 6794005	B2	20040921		
CA 2418572	A1	20030812	CA 2003-2418572	20030210
TW 277084	B	20070321	TW 2003-102671	20030210
JP 2004042624	A	20040212	JP 2003-139539	20030516
JP 4250021	B2	20090408		
PRIORITY APPLN. INFO.:			JP 2002-34725 A	20020212
			JP 2002-142718 A	20020517
			JP 2002-143691 A	20020517
			JP 2002-148122 A	20020522

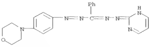
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): MARPAT 139:171330

AB An optical recording medium has a substrate, and a recording layer provided on the substrate and containing: (a) a formazan metal chelate including a formazan compound and a metal component, (b) a squarylium metal chelate including a squarylium compound and a metal component; and (c) at least one addnl. dye selected from phthalocyanine compds. and pentamethine cyanine compds. Alternatively, the recording layer contains (a) a first formazan metal chelate including a first formazan compound and a first metal component and having the maximum absorption wavelength in the range of 500-650 nm, (b) a squarylium metal chelate including a squarylium compound and a metal component; and (c) a second formazan metal chelate including a second formazan compound and a second metal component and having the maximum

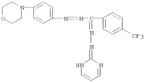
L20 ANSWER 32 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)

absorption wavelength different from that of the first formazan metal chelate and in the range of 650-750 nm.

IT 473299-18-2D, chelate with Ni 573714-10-0D, chelate with Ni
RL: TEM (Technical or engineered material use); USES (Uses)
(formazan metal chelates; optical recording medium and device)
RN 473299-18-2 CAPLUS
CN Methanone, [2-[4-(4-morpholinyl)phenyl]diazenyl]phenyl-, 2-(2-pyrimidinyl)hydrazone (CA INDEX NAME)



RN 573714-10-0 CAPLUS
CN Methanone, [2-[4-(4-morpholinyl)phenyl]diazenyl][4-(trifluoromethyl)phenyl]-, 2-(2-pyrimidinyl)hydrazone (CA INDEX NAME)

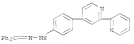


OS.CITING REF COUNT: 10 THERE ARE 10 CAPLUS RECORDS THAT CITE THIS RECORD (19 CITINGS)
REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 33 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2003:126243 CAPLUS
DOCUMENT NUMBER: 139:117301
TITLE: Synthesis, metal complex formation, and switching properties of spiropyrans linked to chelating sites
AUTHOR(S): Querol, Manel; Bozic, Biljana; Salluce, Nunzio; Belser, Peter
CORPORATE SOURCE: Department of Chemistry, University of Fribourg, Fribourg, CH-1700, Switz.
SOURCE: Polyhedron (2003), 22(5), 655-664
CODEN: PLYHDE; ISSN: 0277-5387
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 139:117301

AB The synthesis of 5-pinacolato-2,2'-bipyridine and its applicability in cross-coupling reactions is reported. The use of this framework in Suzuki type cross-coupling reactions, together with a recently published way to achieve indolization has been used to synthesize new spiropyran systems attached to two bipyridine moieties. The indolization method followed, is based on an in situ' hydrolysis/Fischer cyclization protocol reported by Buchwald and co-workers. The synthesis of a new phenanthroline based spirooxazine attached to a bipyridine moiety is also reported. One of the spiropyran system was used as a ligand to form a ruthenium metal complex. Their photophys. properties were tested with respect to the application as sensitizer in functionalized, wire-type bridging ligands in heteronuclear metal complexes.

IT 562098-19-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of spiropyrans and spirooxazine compound via Suzuki cross-coupling reactions and their ruthenium complex formation and irradiation-induced switching behavior)
RN 562098-19-5 CAPLUS
CN Methanone, diphenyl-, (4-[2,2'-bipyridin]-4-ylphenyl)hydrazone (9CI) (CA INDEX NAME)

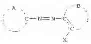


OS.CITING REF COUNT: 32 THERE ARE 32 CAPLUS RECORDS THAT CITE THIS RECORD (32 CITINGS)
REFERENCE COUNT: 48 THERE ARE 48 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 34 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2002:963788 CAPLUS
DOCUMENT NUMBER: 138:47390
TITLE: Optical recording medium for DVD-R system
INVENTOR(S): Noguchi, Soh; Satoh, Tsutomu; Tomura, Tatsuya; Ueno, Yasunobu; Shimizu, Ikuo; Kinugasa, Motoharu; Toyoda, Hiroshi; Yamada, Shiho
PATENT ASSIGNEE(S): Ricoh Company, Ltd., Japan; Kyowa Hakko Kogyo Co., Ltd.; Kyowa Yuka Co., Ltd.
SOURCE: Eur. Pat. Appl., 78 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1267338	A2	20021218	EP 2002-13100	20020613
EP 1267338	A3	20030528		
EP 1267338	B1	20100407		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2002370451	A	20021224	JP 2001-180475	20010614
JP 4094250	B2	20080604		
JP 2002370452	A	20021224	JP 2001-180538	20010614
JP 4156215	B2	20080924		
JP 2002370453	A	20021224	JP 2001-180565	20010614
JP 4094251	B2	20080604		
JP 2002370454	A	20021224	JP 2001-180606	20010614
JP 4094252	B2	20080604		
US 20030157291	A1	20030821	US 2002-166742	20020611
US 6737143	B2	20040518		
AT 463821	T	20100415	AT 2002-13100	20020613
PRIORITY APPLN. INFO.:			JP 2001-180475 A	20010614
			JP 2001-180538 A	20010614
			JP 2001-180565 A	20010614
			JP 2001-180606 A	20010614

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): MARPAT 138:47390
GI



I

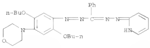
AB An optical recording medium has a substrate and at least a recording layer

L20 ANSWER 34 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)
disposed on the substrate, the recording layer comprises at least one squarylium metal chelate compd. which comprises a squarylium compd. and a metal; and at least one azo metal chelate compd. which comprises another metal and an azo compd. expressed by the following formula I (A and B each
independently expresses a residue forming one of (a) a heterocyclic ring which may comprise a substituent and (b) arom. ring which may comprise a substituent, by combination with corresponding carbon atoms resp. bonded to A or B, X expresses an active-hydrogen-contg. substituent group, and as
further disclosed in the claims). The object of the invention is to provide an optical recording medium for DVD-R system recordable at a wavelength of 600-720 nm, showing excellent light resistance and shelf life, in particular, when it contains a squarylium compd.

IT 219656-37-8D, zinc chloride complex
RL: TEM (Technical or engineered material use); USES (Uses)
(optical recording medium for DVD-R system comprising mixts. of squarylium and azo metal chelate compds.)

RN 219656-37-8 CAPLUS

CN Methanone, [2-[2,5-dibutoxy-4-(4-morpholinyl)phenyl]diazenyl]phenyl-, 2-(2-pyridinyl)hydrazone (CA INDEX NAME)



OS.CITING REF COUNT: 11 THERE ARE 11 CAPLUS RECORDS THAT CITE THIS RECORD (36 CITINGS)
REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 35 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2002:921906 CAPLUS
DOCUMENT NUMBER: 138:4519
TITLE: Preparation of arylhydrazines and substituted indoles from aromatic compounds and hydrazones
INVENTOR(S): Hicks, Frederick; Gou, Da-Ming; Marchese, Salvatore Anthony; Martel, Lawrence J.; Necula, Atena; Benetti, Richard E.; Silva, Richard A.
PATENT ASSIGNEE(S): Rhodia Chirex Inc., USA
SOURCE: U.S., 10 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
US 6489512	B1	20021203	US 2002-177381		20020621
CA 2489375	A1	20031231	CA 2003-2489375		20030620
WO 2004000218	A2	20031231	WO 2003-US19425		20030620
WO 2004000218	A3	20040325			
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW					
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG					
AU 2003243672	A1	20040106	AU 2003-243672		20030620
EP 1515945	A2	20050323	EP 2003-761156		20030620
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK					
CN 1662488	A	20050831	CN 2003-813870		20030620
JP 2005530844	T	20051013	JP 2004-515981		20030620
PRIORITY APPLN. INFO.:			US 2002-177381	A	20020621
			WO 2003-US19425	W	20030620

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): CASREACT 138:4519

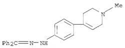
AB Arylhydrazines were prepared by (a) reacting a substrate aromatic compound
bearing an activated C atom and a hydrazone in the presence of a transition metal catalyst to form an aryl hydrazone having a new C-N bond between the activated C of the substrate aromatic compound and a N atom of the
hydrazone, and (b) hydrolyzing the aryl hydrazone. Thus, Pd(OAc)2, 2-dicyclohexylphosphino-2'-(N,N-dimethylamino)biphenyl, Na tert-butoxide, 4-(1-aza-1-methylcyclohex-3-en-4-yl)-1-chlorobenzene (preparation given), and
benzophenone hydrazone were heated in PhMe at 80° for 20 h to give 76% 4-(1-aza-1-methylcyclohex-3-en-4-yl)phenyl benzophenone hydrazone. The latter was heated with ethanolic HCl at 100° for 25 min. to give 93.6% 4-(1-aza-1-methylcyclohex-3-en-4-yl)phenylhydrazine hydrochloride. This in H2O/EtOH was treated with 4-(N,N-dimethylamino)butyral di-Me acetal then with CF3CO2H followed by

L20 ANSWER 35 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)
stirring for 6 h at 55° to give 5-(1-aza-1-methylcyclohex-3-en-4-yl)-3-(2-dimethylaminoethyl)-1H-indole hydrochloride.

IT 477251-53-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of arylhydrazines and substituted indoles from aromatic compds.
and hydrazones)

RN 477251-53-9 CAPLUS

CN Methanone, diphenyl-, [4-(1,2,3,6-tetrahydro-1-methyl-4-pyridinyl)phenyl]hydrazone (9CI) (CA INDEX NAME)



OS.CITING REF COUNT: 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD
(4 CITINGS)
REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

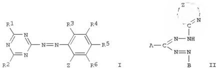
L20 ANSWER 36 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2002:807197 CAPLUS
DOCUMENT NUMBER: 137:318014
TITLE: Optical recording medium and method for recording using the same
INVENTOR(S): Tomura, Tatsuya; Sato, Tsutomu; Noguchi, So
PATENT ASSIGNEE(S): Ricoh Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 13 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
JP 2002307835	A	20021023	JP 2001-183870		20010618
PRIORITY APPLN. INFO.:			JP 2001-31441	A	20010207

OTHER SOURCE(S): MARPAT 137:318014

GI

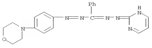


AB The title recording medium has a recording layer on a substrate, wherein the recording layer contains a metal coordination compound of I (R1-6 = substituent; Z = substituent with active hydrogen), a cyanine dye and II (Z = polyheterocyclic residue; A = alkyl, aralkyl, aryl, etc.; B = aryl, alkyl, alkoxy, etc.) or the salt of II. The optical disk is recordable with 720-600 nm light and shows the high light-resistance and the good storageability.

IT 473299-18-2D, transition metal complex
RL: TEM (Technical or engineered material use); USES (Uses)
(formazan dye; optical recording medium and method for recording using same)

RN 473299-18-2 CAPLUS

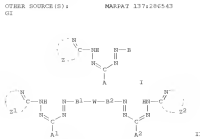
CN Methanone, [2-[4-(4-morpholinyl)phenyl]diazenyl]phenyl-, 2-(2-pyrimidinyl)hydrazone (CA INDEX NAME)



L20 ANSWER 37 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2002:758644 CAPLUS
DOCUMENT NUMBER: 137:286543
TITLE: Light-resistant storage-stable optical recording media using conventional styryl colorants and formazan compounds useful for DVD-R
INVENTOR(S): Noguchi, Shu; Sato, Tsutomu; Tomura, Tatsuya
PATENT ASSIGNEE(S): Ricoh Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 16 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002283719	A	20021003	JP 2001-86160	20010322
PRIORITY APPLN. INFO.:			JP 2001-9579 A	20010118

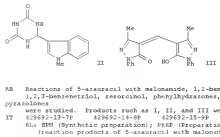
OTHER SOURCE(S): MARPAT 137:286543
GI



AB The recording medium consists of a substrate having thereon a recording layer containing 21 styryl colorants and 21 formazan compds. or formazan-metal chelates shown as I or II [E, Z1, Z2 = N-containing (un)substituted 5- or 6-membered ring; A, B, A1, A2, B1, B2 = substituent; W = CH2, SO2, direct bond]. Preferably, the styryl colorants have the structure expressed by III [X = N-containing (un)substituted 5- or 6-membered ring, if n has valency of +1, counter ion of valency of -1 or Y involves group with valency of -1; Y = substituent direct bonded to benzene ring]. The medium is recorded at wavelength of 600-720 nm.

IT 219456-37-8, transition metal complex
RL: TEM (Technical or engineered material use); USES (Uses)
(light-resistant storage-stable optical disks using conventional styryl colorants and formazan compds. for DVD-R)
RN 219456-37-8 CAPLUS
CN Methanone, [2-(2,5-dibutoxy-4-[4-morpholinyl]phenyl)diazenyl]phenyl-, 2-(2-pyridinyl)hydrazone (CA INDEX NAME)

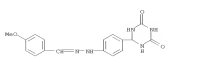
L20 ANSWER 38 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2002:585557 CAPLUS
DOCUMENT NUMBER: 139:255201
TITLE: Reaction Products of 5-Azauracil with Malonamide and Aromatic C-Nucleophiles
AUTHOR(S): Azev, Yu. A.; Shorshnev, S. V.; Gabel, D.
CORPORATE SOURCE: Ural Research Institute of Medicinal Preparation Technology, Yekaterinburg, Russia
SOURCE: Pharmaceutical Chemistry Journal (Translation of Khimiko-Farmatsevticheskii Zhurnal) (2002), 36(3), 146-150
CODEN: PCJOAU; ISSN: 0091-150X
PUBLISHER: Kluwer Academic/Consultants Bureau
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 138:255201
GI



AB Reactions of 5-azauracil with malonamide, 1,2-benzenediamine, 1,2,3-benzenetriol, resorcinol, phenylhydrazones, amidoles, and pyrazolones were studied. Products such as I, II, and III were obtained.

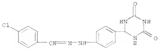
IT 629692-13-7P 629692-14-8P 629692-15-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(reaction products of 5-azauracil with malonamide and aromatic C-nucleophiles)

RN 629692-13-7 CAPLUS
CN Benzaldehyde, 4-methoxy-, 2-(4-(hexahydro-4,6-dioxo-1,3,5-triazin-2-yl)phenyl)hydrazone (CA INDEX NAME)

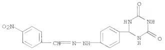


L20 ANSWER 38 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)

RN 429692-14-8 CAPLUS
CN Benzaldehyde, 4-chloro-, 2-[4-(hexahydro-4,6-dioxo-1,3,5-triazin-2-yl)phenyl]hydrazone (CA INDEX NAME)



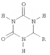
RN 429692-15-9 CAPLUS
CN Benzaldehyde, 4-nitro-, 2-[4-(hexahydro-4,6-dioxo-1,3,5-triazin-2-yl)phenyl]hydrazone (CA INDEX NAME)



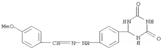
OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)
REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 39 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2002:203284 CAPLUS
DOCUMENT NUMBER: 136:401730
TITLE: Stable σ-adducts of 5-azauracil with C-nucleophiles
AUTHOR(S): Azev, Yurii A.; Shorshnev, Sergei V.; Gabel, Detlef
CORPORATE SOURCE: Urals Scientific Research Institute of Technology of Medical Preparations, Yekaterinburg, 620219, Russia
SOURCE: Mendeleev Communications (2001), (6), 234-235
CODEN: MENCEX; ISSN: 0959-9436
PUBLISHER: Russian Academy of Sciences
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 136:401730
GI

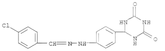

I

AB The heating of 5-azauracil with malonamide in butanol resulted in 6-(dicarbamoylmethyl)triazinedione I [R = (NH2CO)2CH]. Under conditions of acid catalysis, 5-azauracil reacted with o-phenylenediamine, pyrogallol, resorcinol, and phenylhydrazine derivs. to form the corresponding 6-derivs. of I.
IT 429692-13-7P 429692-14-8P 429692-15-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of stable σ-adducts of 5-azauracil with C-nucleophiles)
RN 429692-13-7 CAPLUS
CN Benzaldehyde, 4-methoxy-, 2-[4-(hexahydro-4,6-dioxo-1,3,5-triazin-2-yl)phenyl]hydrazone (CA INDEX NAME)

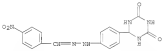


RN 429692-14-8 CAPLUS
CN Benzaldehyde, 4-chloro-, 2-[4-(hexahydro-4,6-dioxo-1,3,5-triazin-2-yl)phenyl]hydrazone (CA INDEX NAME)

L20 ANSWER 39 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)



RN 429692-15-9 CAPLUS
CN Benzaldehyde, 4-nitro-, 2-[4-(hexahydro-4,6-dioxo-1,3,5-triazin-2-yl)phenyl]hydrazone (CA INDEX NAME)



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 40 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2001:693288 CAPLUS
DOCUMENT NUMBER: 135:242237
TITLE: Preparation of pyridazinylphenyl hydrazones useful against congestive heart failure
INVENTOR(S): Pystynen, Jarmo; Pippuri, Aino; Luiro, Anne; Nore, Pentti; Baeckstroem, Reijo; Loennberg, Kari; Haikala, Heimo; Levijoki, Jouko; Kaheinen, Petri; Kaivola, Juha
PATENT ASSIGNEE(S): Orion Corporation, Finland
SOURCE: PCT Int. Appl., 36 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001068611	A1	20010920	WO 2001-FI241	20010312
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2403188	A1	20010920	CA 2001-2403188	20010312
AU 2001046577	A	20010924	AU 2001-46577	20010312
EP 1265871	A1	20021218	EP 2001-919489	20010312
EP 1265871	B1	20060208		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
BR 2001009136	A	20021224	BR 2001-9136	20010312
HU 2003000177	A2	20030728	HU 2003-177	20010312
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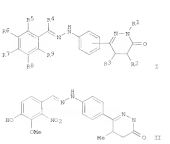
HK 1052008	A1	20050527	HK 2003-104272	20030616
PRIORITY APPLN. INFO.:			FI 2000-577 A	20000313

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LCUS DISPLAY FORMAT
OTHER SOURCE(S): MARPAT 135:242237
GI



AB The title compds. [I; R1-R4 = H, alkyl, aryl, etc.; or R2 and R3 form a ring of 5-7 carbon atoms; R5-R9 = H, alkyl, aryl, etc.] which increase the calcium sensitivity of contractile proteins of the cardiac muscle and are thus useful in the treatment of congestive heart failure, were prepared Thus, reacting (R)-6-[4-hydrazinophenyl]-5-methyl-4,5-dihydro-2H-pyridazin-3-one [preparation given] with 4-hydroxy-3-methoxy-2-nitrobenzaldehyde in EtOH afforded (R)-II which showed 207.2% change from control in test for calcium sensitizing effect in skinned cardiac fiber.

IT 360794-85-0P 360794-86-1P 360794-87-2P
360794-88-3P 360794-89-4P 360794-90-7P
360794-91-8P 360794-92-9P 360794-93-0P
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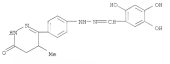
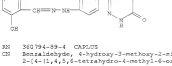
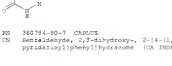


RN 360794-88-3 CAPLUS
CN Benzaldehyde, 2-hydroxy-5-nitro-,
2-[4-[1,4,5,6-tetrahydro-4-methyl-6-oxo-3-pyridazinyl]phenyl]hydrazone (CA INDEX NAME)



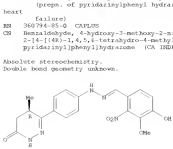
RN 360794-89-4 CAPLUS
CN Benzaldehyde, 4-hydroxy-3-methoxy-2-nitro-,
2-[4-[1,4,5,6-tetrahydro-4-methyl-6-oxo-3-pyridazinyl]phenyl]hydrazone (CA INDEX NAME)



RN 360794-90-7 CAPLUS
CN Benzaldehyde, 2,3-dihydroxy-, 2-[4-[1,4,5,6-tetrahydro-4-methyl-6-oxo-3-pyridazinyl]phenyl]hydrazone (CA INDEX NAME)

RN 360794-85-0 CAPLUS
CN Benzaldehyde, 4-hydroxy-3-methoxy-2-nitro-,
2-[4-[1(4h)-1,4,5,6-tetrahydro-4-methyl-6-oxo-3-pyridazinyl]phenyl]hydrazone (CA INDEX NAME)

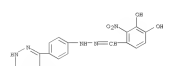
Absolute stereochemistry.
Double bond geometry unknown.



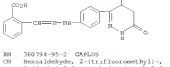
RN 360794-86-1 CAPLUS
CN Benzoic acid,
2,4-dihydroxy-3-[[2-[4-[1,4,5,6-tetrahydro-4-methyl-6-oxo-3-pyridazinyl]phenyl]hydrazinylidene]methyl]-, ethyl ester (CA INDEX NAME)

RN 360794-87-2 CAPLUS
CN Benzaldehyde, 2,4,5-trihydroxy-,
2-[4-[1,4,5,6-tetrahydro-4-methyl-6-oxo-3-pyridazinyl]phenyl]hydrazone (CA INDEX NAME)

RN 360794-91-8 CAPLUS
CN Benzaldehyde, 2,5-dihydroxy-, 2-[4-[1,4,5,6-tetrahydro-4-methyl-6-oxo-3-pyridazinyl]phenyl]hydrazone (CA INDEX NAME)

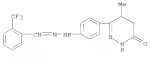


RN 360794-92-9 CAPLUS
CN Benzaldehyde, 3,4-dihydroxy-2-nitro-,
2-[4-[1,4,5,6-tetrahydro-4-methyl-6-oxo-3-pyridazinyl]phenyl]hydrazone (CA INDEX NAME)

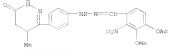


RN 360794-93-0 CAPLUS
CN Benzoic acid, 2-[[2-[4-[1,4,5,6-tetrahydro-4-methyl-6-oxo-3-pyridazinyl]phenyl]hydrazinylidene]methyl]- (CA INDEX NAME)

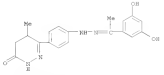
RN 360794-95-2 CAPLUS
CN Benzaldehyde, 2-(trifluoromethyl)-,
2-[4-[1,4,5,6-tetrahydro-4-methyl-6-oxo-3-pyridazinyl]phenyl]hydrazone (CA INDEX NAME)



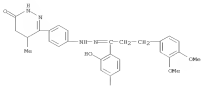
RN 360794-96-3
CN Benzaldehyde, 4-(acetyloxy)-3-methoxy-2-nitro-,
1-[2-[4-[1,4,5,6-tetrahydro-4-methyl-6-oxo-3-pyridazinyl]phenyl]hydrazone] (CA INDEX NAME)



RN 360794-97-4 CAPLUS
CN 3(2H)-Pyridazinone, 6-[4-[2-[3-(3,5-dihydroxyphenyl)ethylidene]hydrazinyl]phenyl]-4,5-dihydro-5-methyl- (CA INDEX NAME)

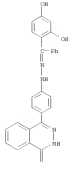


RN 360794-98-5 CAPLUS
CN 3(2H)-Pyridazinone, 6-[4-[2-[3-(2,4-dihydroxyphenyl)-2-]3,4-dimethoxyphenyl]propylidene]hydrazinyl]phenyl]-4,5-dihydro-5-methyl- (CA INDEX NAME)



RN 360794-99-6 CAPLUS
CN 1(2H)-Phthalazinone, 4-[4-[2-[(2,4-dihydroxyphenyl)phenylmethylene]hydrazinyl]phenyl]- (CA INDEX NAME)

PAGE 1-A



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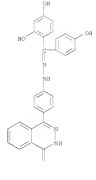
RN 360795-00-2 CAPLUS
CN 1(2H)-Phthalazinone, 4-[4-[2-[(2,4-dihydroxyphenyl)(4-hydroxyphenyl)methylene]hydrazinyl]phenyl]- (CA INDEX NAME)

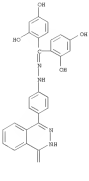
PAGE 1-A



PAGE 2-A

RN 360795-01-3 CAPLUS
CN 1(2H)-Phthalazinone, 4-[4-[2-[bis(2,4-dihydroxyphenyl)methylene]hydrazinyl]phenyl]- (CA INDEX NAME)

PAGE 1-A



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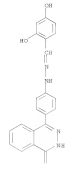
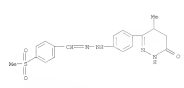
RN 360795-02-4 CAPLUS
CN Benzaldehyde, 2,4-dihydroxy-, 2-[4-(3,4-dihydro-4-oxo-1-phthalazinyl)phenyl]hydrazone (CA INDEX NAME)

PAGE 1-A

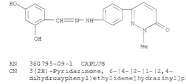


PAGE 2-A

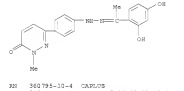
RN 360795-03-5 CAPLUS
CN Benzaldehyde, 4-[methylsulfonyl]-, 2-[4-[1,4,5,6-tetrahydro-4-methyl-6-oxo-3-pyridazinyl]phenyl]hydrazone (CA INDEX NAME)



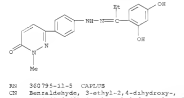
RN 360795-04-6 CAPLUS
CN Benzonitrile, 3-[[2-[4-[1,4,5,6-tetrahydro-4-methyl-6-oxo-3-pyridazinyl]phenyl]hydrazinylidene]methyl]- (CA INDEX NAME)



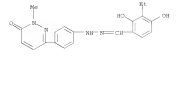
RN 360795-09-3 CAPLUS
CN 3(2H)-Pyridazinone, 6-[4-[2-[1-[2,4-dihydroxyphenyl]ethylidene]hydrazinyl]phenyl]-2-methyl- (CA INDEX NAME)

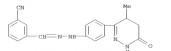


RN 360795-10-6 CAPLUS
CN 3(2H)-Pyridazinone, 6-[4-[2-[1-[2,4-dihydroxyphenyl]propylidene]hydrazinyl]phenyl]-2-methyl- (CA INDEX NAME)

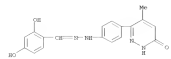


RN 360795-11-7 CAPLUS
CN Benzaldehyde, 3-ethyl-2,4-dihydroxy-, 2-[4-[1,6-dihydro-1-methyl-6-oxo-3-pyridazinyl]phenyl]hydrazone (CA INDEX NAME)

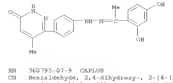




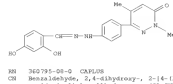
RN 360795-06-8 CAPLUS
CN Benzaldehyde, 2,4-dihydroxy-, 2-[4-[1,6-dihydro-4-methyl-6-oxo-3-pyridazinyl]phenyl]hydrazone (CA INDEX NAME)



RN 360795-06-8 CAPLUS
CN 3(2H)-Pyridazinone, 6-[4-[2-[1-[2,4-dihydroxyphenyl]ethylidene]hydrazinyl]phenyl]-5-methyl- (CA INDEX NAME)

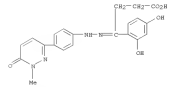


RN 360795-07-9 CAPLUS
CN Benzaldehyde, 2,4-dihydroxy-, 2-[4-[1,6-dihydro-1,4-dimethyl-6-oxo-3-pyridazinyl]phenyl]hydrazone (CA INDEX NAME)

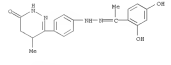


RN 360795-08-0 CAPLUS
CN Benzaldehyde, 2,4-dihydroxy-, 2-[4-[1,6-dihydro-1-methyl-6-oxo-3-pyridazinyl]phenyl]hydrazone (CA INDEX NAME)

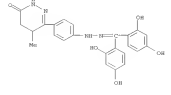
RN 360795-12-6 CAPLUS
CN Benzenebutanoic acid, γ-[2-[4-[1,6-dihydro-1-methyl-6-oxo-3-pyridazinyl]phenyl]hydrazinylidene]-2,4-dihydroxy- (CA INDEX NAME)



RN 360795-16-0 CAPLUS
CN 3(2H)-Pyridazinone, 6-[4-[2-[1-[2,4-dihydroxyphenyl]ethylidene]hydrazinyl]phenyl]-4,5-dihydro-5-methyl- (CA INDEX NAME)

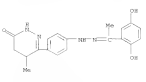


RN 360795-17-1 CAPLUS
CN 3(2H)-Pyridazinone, 6-[4-[2-[bis[2,4-dihydroxyphenyl]methylene]hydrazinyl]phenyl]-4,5-dihydro-5-methyl- (CA INDEX NAME)

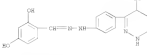


RN 360795-18-2 CAPLUS
CN 3(2H)-Pyridazinone, 6-[4-[2-[1-[2,5-

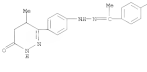
dihydroxyphenyl)ethylidene]hydrazinyl}phenyl]-4,5-dihydro-5-methyl- (CA INDEX NAME)



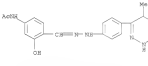
RN 360795-19-3 CAPLUS
CN Benzaldehyde, 2,4-dihydroxy-, 2-[4-[4-ethyl-1,4,5,6-tetrahydro-6-oxo-3-pyridazinyl]phenyl]hydrazone (CA INDEX NAME)



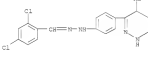
RN 360795-20-6 CAPLUS
CN Acetamide, N-[4-[1-[2-[4-[1,4,5,6-tetrahydro-4-methyl-6-oxo-3-pyridazinyl]phenyl]hydrazinylidene]ethyl]phenyl]- (CA INDEX NAME)



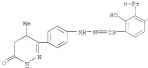
RN 360795-21-7 CAPLUS
CN 3(2H)-Pyridazinone, 6-[4-[2-[1-(2,4-dihydroxy-3-methylphenyl)ethylidene]hydrazinyl]phenyl]-4,5-dihydro-5-methyl- (CA INDEX NAME)



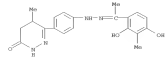
RN 360795-25-1 CAPLUS
CN Benzaldehyde, 2,4-dichloro-, 2-[4-[1,4,5,6-tetrahydro-4-methyl-6-oxo-3-pyridazinyl]phenyl]hydrazone (CA INDEX NAME)



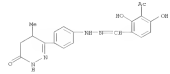
RN 360795-26-2 CAPLUS
CN Benzaldehyde, 2,4-dihydroxy-3-propyl-, 2-[4-[1,4,5,6-tetrahydro-4-methyl-6-oxo-3-pyridazinyl]phenyl]hydrazone (CA INDEX NAME)



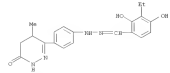
RN 360795-27-3 CAPLUS
CN Benzaldehyde, 3-butyl-2,4-dihydroxy-, 2-[4-[1,4,5,6-tetrahydro-4-methyl-6-oxo-3-pyridazinyl]phenyl]hydrazone (CA INDEX NAME)



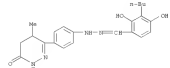
RN 360795-22-8 CAPLUS
CN Benzaldehyde, 3-acetyl-2,4-dihydroxy-, 2-[2-[4-[1,4,5,6-tetrahydro-4-methyl-6-oxo-3-pyridazinyl]phenyl]hydrazone (CA INDEX NAME)



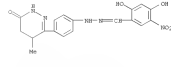
RN 360795-23-9 CAPLUS
CN Benzaldehyde, 3-ethyl-2,4-dihydroxy-, 2-[4-[1,4,5,6-tetrahydro-4-methyl-6-oxo-3-pyridazinyl]phenyl]hydrazone (CA INDEX NAME)



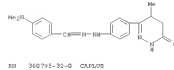
RN 360795-24-0 CAPLUS
CN Acetamide, N-[3-hydroxy-4-[2-[4-[1,4,5,6-tetrahydro-4-methyl-6-oxo-3-pyridazinyl]phenyl]hydrazinylidene]methyl]phenyl]- (CA INDEX NAME)



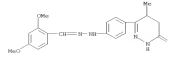
RN 360795-30-8 CAPLUS
CN Benzaldehyde, 2,4-dihydroxy-5-nitro-, 2-[4-[1,4,5,6-tetrahydro-4-methyl-6-oxo-3-pyridazinyl]phenyl]hydrazone (CA INDEX NAME)



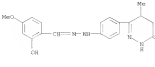
RN 360795-31-9 CAPLUS
CN Benzaldehyde, 4-[dimethylamino]-, 2-[4-[1,4,5,6-tetrahydro-4-methyl-6-oxo-3-pyridazinyl]phenyl]hydrazone (CA INDEX NAME)



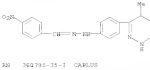
RN 360795-32-0 CAPLUS
CN Benzaldehyde, 2,4-dimethoxy-, 2-[4-[1,4,5,6-tetrahydro-4-methyl-6-oxo-3-pyridazinyl]phenyl]hydrazone (CA INDEX NAME)



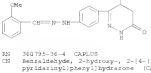
RN 360795-33-6 CAPLUS
CN Benzaldehyde, 2-hydroxy-4-methoxy-, 2-[4-(1,4,5,6-tetrahydro-4-methyl-6-oxo-3-pyridazinyl)phenyl]hydrazone (CA INDEX NAME)



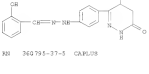
RN 360795-34-7 CAPLUS
CN Benzaldehyde, 4-nitro-, 2-[4-(1,4,5,6-tetrahydro-4-methyl-6-oxo-3-pyridazinyl)phenyl]hydrazone (CA INDEX NAME)



RN 360795-35-8 CAPLUS
CN Benzaldehyde, 3-methoxy-, 2-[4-(1,4,5,6-tetrahydro-6-methyl-6-oxo-3-pyridazinyl)phenyl]hydrazone (CA INDEX NAME)

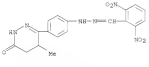


RN 360795-36-9 CAPLUS
CN Benzaldehyde, 3-hydroxy-, 2-[4-(1,4,5,6-tetrahydro-6-methyl-6-oxo-3-pyridazinyl)phenyl]hydrazone (CA INDEX NAME)

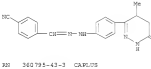


RN 360795-37-0 CAPLUS

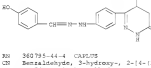
RN 360795-41-1 CAPLUS
CN Benzaldehyde, 2,4-dinitro-, 2-[4-(1,4,5,6-tetrahydro-4-methyl-6-oxo-3-pyridazinyl)phenyl]hydrazone (CA INDEX NAME)



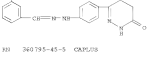
RN 360795-42-2 CAPLUS
CN Benzonitrile, 4-[2-[4-(1,4,5,6-tetrahydro-4-methyl-6-oxo-3-pyridazinyl)phenyl]hydrazinylidene]methyl]- (CA INDEX NAME)



RN 360795-43-3 CAPLUS
CN Benzaldehyde, 4-hydroxy-, 2-[4-(1,4,5,6-tetrahydro-4-methyl-6-oxo-3-pyridazinyl)phenyl]hydrazone (CA INDEX NAME)

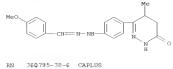


RN 360795-44-4 CAPLUS
CN Benzaldehyde, 3-hydroxy-, 2-[4-(1,4,5,6-tetrahydro-4-methyl-6-oxo-3-pyridazinyl)phenyl]hydrazone (CA INDEX NAME)

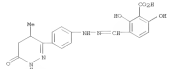


RN 360795-45-5 CAPLUS

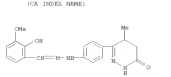
RN 360795-46-6 CAPLUS
CN Benzaldehyde, 4-methoxy-, 2-[4-(1,4,5,6-tetrahydro-4-methyl-6-oxo-3-pyridazinyl)phenyl]hydrazone (CA INDEX NAME)



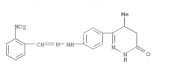
RN 360795-38-6 CAPLUS
CN Benzoic acid, 2,6-dihydroxy-3-[[2-[4-(1,4,5,6-tetrahydro-4-methyl-6-oxo-3-pyridazinyl)phenyl]hydrazinylidene]methyl]- (CA INDEX NAME)



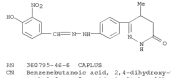
RN 360795-39-7 CAPLUS
CN Benzaldehyde, 2-hydroxy-3-methoxy-, 2-[4-(1,4,5,6-tetrahydro-4-methyl-6-oxo-3-pyridazinyl)phenyl]hydrazone (CA INDEX NAME)



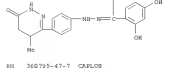
RN 360795-40-0 CAPLUS
CN Benzaldehyde, 2-nitro-, 2-[4-(1,4,5,6-tetrahydro-4-methyl-6-oxo-3-pyridazinyl)phenyl]hydrazone (CA INDEX NAME)



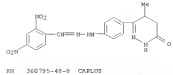
CN Benzaldehyde, 4-hydroxy-3-nitro-, 2-[4-(1,4,5,6-tetrahydro-4-methyl-6-oxo-3-pyridazinyl)phenyl]hydrazone (CA INDEX NAME)



RN 360795-46-6 CAPLUS
CN Benzeneethanoic acid, 2,4-dihydroxy-y-[2-[4-(1,4,5,6-tetrahydro-4-methyl-6-oxo-3-pyridazinyl)phenyl]hydrazinylidene]- (CA INDEX NAME)

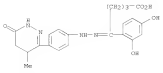


RN 360795-47-7 CAPLUS
CN Benzaldehyde, 2,4-dinitro-, 2-[4-(1,4,5,6-tetrahydro-4-methyl-6-oxo-3-pyridazinyl)phenyl]hydrazone (CA INDEX NAME)

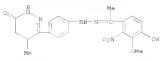


RN 360795-48-8 CAPLUS
CN Benzenepentanoic acid, 2,4-dihydroxy-&-[2-[4-(1,4,5,6-tetrahydro-4-methyl-6-oxo-3-pyridazinyl)phenyl]hydrazinylidene]- (CA INDEX NAME)

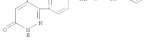
L20 ANSWER 40 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)



RN 360795-49-9 CAPLUS
CN 3(2H)-Pyridazinone, 4,5-dihydro-6-[4-[2-[1-(4-hydroxy-3-methoxy-2-nitrophenyl)ethylidene]hydrazinyl]phenyl]-5-methyl- (CA INDEX NAME)



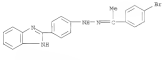
RN 360795-54-6 CAPLUS
CN Benzaldehyde, 4-hydroxy-3-methoxy-2-nitro-, 2-[4-[1,4,5,6-tetrahydro-4-methyl-6-oxo-3-pyridazinyl]phenyl]hydrazone (CA INDEX NAME)



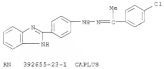
OS.CITING REF COUNT: 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

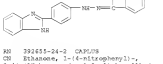
L20 ANSWER 41 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)



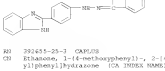
RN 392655-22-0 CAPLUS
CN Ethanone, 1-(4-chlorophenyl)-, 2-[4-(1H-benzimidazol-2-yl)phenyl]hydrazone (CA INDEX NAME)



RN 392655-23-1 CAPLUS
CN Ethanone, 1-(4-aminophenyl)-, 2-[4-(1H-benzimidazol-2-yl)phenyl]hydrazone (CA INDEX NAME)



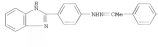
RN 392655-24-2 CAPLUS
CN Ethanone, 1-(4-nitrophenyl)-, 2-[4-(1H-benzimidazol-2-yl)phenyl]hydrazone (CA INDEX NAME)



RN 392655-25-3 CAPLUS
CN Ethanone, 1-(4-methoxyphenyl)-, 2-[4-(1H-benzimidazol-2-yl)phenyl]hydrazone (CA INDEX NAME)

L20 ANSWER 41 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN

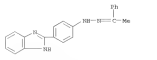
ACCESSION NUMBER: 2001:466123 CAPLUS
DOCUMENT NUMBER: 136:134711
TITLE: Synthesis of benzimidazole-substituted phenylhydrazones of acetophenones
AUTHOR(S): Sirakishvili, A.; Mikhalishvili, N.; Samsoniya, Sh.
CORPORATE SOURCE: Georgia
SOURCE: Bulletin of the Georgian Academy of Sciences (2001), 163(1), 78-80
CODEN: BGSOFO; ISSN: 1540-0262
PUBLISHER: Georgian Academy of Sciences
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 136:134711
GI



AB Title compds. I (X = H, Br, Cl, NH2, NO2, OMe) are prepared by diazotization-reduction of 2-(4-aminophenyl)benzimidazole (II) and condensation of the resulting 2-(4-hydrazinophenyl)benzimidazole dihydrochlorides with acetophenones. II is prepared from 1,2-benzenediamine and 4-aminobenzoic acid.

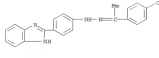
IT 392655-20-8P 392655-21-9P 392655-22-0P
392655-23-1P 392655-24-2P 392655-25-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of acetophenone (benzimidazolylphenyl)hydrazones)

RN 392655-20-8 CAPLUS
CN Ethanone, 1-phenyl-, 2-[4-(1H-benzimidazol-2-yl)phenyl]hydrazone (CA INDEX NAME)



RN 392655-21-9 CAPLUS
CN Ethanone, 1-(4-bromophenyl)-, 2-[4-(1H-benzimidazol-2-yl)phenyl]hydrazone (CA INDEX NAME)

L20 ANSWER 41 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

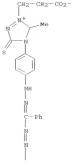
L20 ANSWER 42 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1999:451035 CAPLUS
DOCUMENT NUMBER: 131:136709
TITLE: Ultrahigh-contrast silver halide photographic material, its processing and formazan compound additive
INVENTOR(S): Matsuura, Mitsunobu; Fukui, Makoto; Miura, Norio; Ito, Hirohide; Takahayashi, Toshiyuki
PATENT ASSIGNEE(S): Konica Co., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 95 pp.
CODEN: JKXAAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11191266	A	19990721	JP 1998-10145	19980414
PRIORITY APPLN. INFO.:			JP 1997-114422	A 19970414
			JP 1997-323998	A 19971110

OTHER SOURCE(S): MARPAT 131:136709
AB The Ag halide photog. material contains at least 1 kind of formazan compound represented by XNHN:C(N:NR')R'' [R, R', R'' = H, monovalent substituent], wherein the formazan compound is capable of transforming itself to a development inhibitor upon oxidation during a development process. The material produces images with excellent sharpness, granularity, resolution power, and color reproduction
IT 233767-01-8
RL: NUA (Modifier or additive use); USES (Uses)
(formazan additive to ultrahigh-contrast silver halide photog. material)
RN 233767-01-8 CAPLUS
CN 3H-1,2,4-Triazolium, 5-[2-carboxyethyl)-4-[4-[2-[2-(4-carboxyphenyl)diazenyl]phenylmethylene]hydrazinyl]phenyl]-4,5-dihydro-5-methyl-3-thioxo-, inner salt (CA INDEX NAME)

L20 ANSWER 42 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)

PAGE 1-A



PAGE 2-A

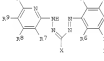
OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD

(1 CITINGS)

L20 ANSWER 43 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1998:816480 CAPLUS
DOCUMENT NUMBER: 130:117405
TITLE: Optical recording medium using formazan-metal chelate compound
INVENTOR(S): Ueno, Yasunobu; Maruyama, Katsuji; Sato, Yasutomo; Tomura, Shinya; Sasa, Noboru; Aruma, Yasshiro
PATENT ASSIGNEE(S): Ricoh Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 21 pp.
CODEN: JKXAAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10337958	A	19981222	JP 1997-165227	19970607
JP 3456623	B2	20031014		
PRIORITY APPLN. INFO.:			JP 1997-165227	19970607

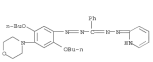
OTHER SOURCE(S): MARPAT 130:117405
GI



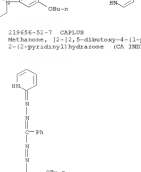
AB The recording medium has a recording layer containing a chelate compound of a formazan compound I [X = (un)substituted alkyl or aryl; R1-R2 = H, (un)substituted alkyl or aryl; R1 and R2 may form ring; R3-R10 = H, (un)substituted alkyl or aryl, alkoxy, amino, halo, NO2, cyano, COOR, etc.] and a metal salt MY (M = Group 3, 4, 5, 6, 7, 8, 9, or 10 metal or its oxide or halide; Y = anion). The recording layer may contain a dye having a maximum absorption peak at 700-750 nm. The recording medium showed good light resistance and storage stability and is useful for CD-ROM disks.
IT 219456-37-8D, transition metal complex 219456-38-9D, transition metal complex 219456-52-7D, transition metal complex 219456-62-9D, transition metal complex 219456-64-1D, transition metal complex 219456-66-3D, transition metal complex 219456-70-9D, transition metal complex
RL: DEV (Device component use); USES (Uses)
(optical recording medium using formazan-metal chelate compound for CD-ROM)
RN 219456-37-8 CAPLUS
CN Methanone, [2-[2,5-dibutoxy-4-(4-morpholinyl)phenyl]diazenyl]phenyl-, 2-(2-pyridinyl)hydrazone (CA INDEX NAME)

L20 ANSWER 43 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)

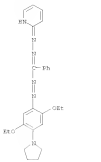
RN 219456-38-9 CAPLUS
CN Methanone, [2-[2,5-dibutoxy-4-(1-piperidinyl)phenyl]diazenyl]phenyl-, 2-(2-pyridinyl)hydrazone (CA INDEX NAME)



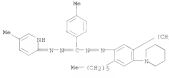
RN 219456-52-7 CAPLUS
CN Methanone, [2-[2,5-dibutoxy-4-(1-pyrrolidinyl)phenyl]diazenyl]phenyl-, 2-(2-pyridinyl)hydrazone (CA INDEX NAME)



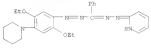
RN 219456-62-9 CAPLUS
CN Methanone, [2-[2,5-diethoxy-4-(1-pyrrolidinyl)phenyl]diazenyl]phenyl-, 2-(2-pyridinyl)hydrazone (CA INDEX NAME)



RN 219656-64-1 CAPLUS
CN Methanone, [2-[2,5-dihexyl-4-(1-piperidinyl)phenyl]diazenyl](4-methylphenyl)-, 2-(2-methyl-2-pyridinyl)hydrazone (CA INDEX NAME)

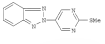


RN 219656-66-3 CAPLUS
CN Methanone, [2-[2,5-diethoxy-4-(1-piperidinyl)phenyl]diazenyl]phenyl-, 2-(2-pyridinyl)hydrazone (CA INDEX NAME)



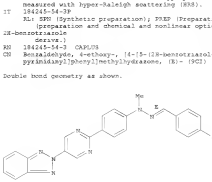
RN 219656-70-9 CAPLUS
CN Methanone, [2-[2,5-diethoxy-4-(4-morpholinyl)phenyl]diazenyl]phenyl-, 2-(2-pyridinyl)hydrazone (CA INDEX NAME)

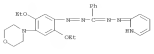
ACCESSION NUMBER: 1996:702555 CAPLUS
DOCUMENT NUMBER: 126:93323
ORIGINAL REFERENCE NO.: 126:s393a,839a
TITLE: Chemistry and nonlinear optical properties of new 2H-benzotriazole derivatives
AUTHOR(S): Gompper, Rudolf; Walther, Peter
CORPORATE SOURCE: Inst. Organische Chemie, Univ. Muenchen, Munich, D-80333, Germany
SOURCE: Tetrahedron (1996), 52(46), 14607-14624
CODEN: TETRAB; ISSN: 0040-4020
PUBLISHER: Elsevier
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



AB A 2H-benzotriazolyl group was introduced as a new electron-withdrawing group for non-linear optically-active chromophores. Novel benzotriazole derivs. and hydrazones were synthesized. While their electronic structure and acceptor capability was comparable to those of structurally related nitro compds., 2H-benzotriazoles showed a more favorable transparency-non-linearity trade-off for non-linear optics applications. As example compound was 2-(2-[2-methylthio-4-pyrimidinyl]ethenyl)-2H-benzotriazole (I). The first mol. hyperpolarizabilities β were measured with hyper-Raleigh scattering (HRS).
IT 184245-54-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and chemical and nonlinear optical properties of 2H-benzotriazole derivs.)
RN 184245-54-3 CAPLUS
CN Benzaldehyde, 4-ethoxy-, [4-[5-(2H-benzotriazol-2-yl)-2-pyrimidinyl]phenyl]methylhydrazone, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

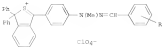




OS.CITING REF COUNT: 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)

OS.CITING REF COUNT: 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)

L20 ANSWER 45 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1996:116923 CAPLUS
DOCUMENT NUMBER: 124:178858
ORIGINAL REFERENCE NO.: 124:33137a,33140a
TITLE: Reaction of 1-alkylthio-substituted thiophthalylium salts with hydrazones of aromatic aldehydes
AUTHOR(S): Oparin, D. A.; Solodunov, A. A.
CORPORATE SOURCE: Inst. Biokhim., Belarus
SOURCE: Vestsi Akademii Navuk Belarusi, Seryya Khimichnykh Navuk (1995), (1), 62-4
CODEN: VAKNEK; ISSN: 0002-3590
PUBLISHER: Navuka i Tekhnika
DOCUMENT TYPE: Journal
LANGUAGE: Russian
GI

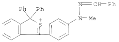


I

AB Cationic dyes I (R=H, 4-MeO, 3-Br) were prepared by the reaction of 1-ethylthio-3,3-diphenylthiophthalylium tetrafluoroborate with methylphenylhydrazones of benzaldehyde or substituted benzaldehydes (p-CH3O, m-Br) under conditions of general acidic catalysis.
IT 173993-62-9P 173993-64-1P 173993-66-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(reaction of 1-alkylthio-substituted thiophthalylium salts with hydrazones in the cationic dye synthesis)
RN 173993-62-9 CAPLUS
CN 1H-Benzo[c]thiolium, 3-[4-[methyl(phenylmethylene)hydrazino]phenyl]-1,1-diphenyl-, perchlorate (9CI) (CA INDEX NAME)

CM 1

CRN 173993-61-8
CMF C34 H27 N2 S



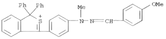
CM 2

CRN 14797-73-0
CMF Cl O4

RN 173993-64-1 CAPLUS
CN 1H-Benzo[c]thiolium, 3-[4-[[(4-methoxyphenyl)methylene]methylhydrazino]phenyl]-1,1-diphenyl-, perchlorate
(9CI) (CA INDEX NAME)

CM 1

CRN 173993-63-0
CMF C35 H29 N2 O S



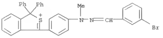
CM 2

CRN 14797-73-0
CMF Cl O4

RN 173993-66-3 CAPLUS
CN 1H-Benzo[c]thiolium, 3-[4-[[(3-bromophenyl)methylene]methylhydrazino]phenyl]-1,1-diphenyl-, perchlorate (9CI) (CA INDEX NAME)

CM 1

CRN 173993-65-2
CMF C34 H26 Br N2 S



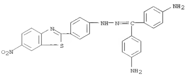
CM 2

CRN 14797-73-0
CMF Cl O4

L20 ANSWER 46 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1995:502916 CAPLUS
DOCUMENT NUMBER: 122:241385
ORIGINAL REFERENCE NO.: 122:44119a,44122a
TITLE: Novel nonlinear optical aminoaryl hydrazones and nonlinear optical polymers thereof
INVENTOR(S): Inbasekaran, Muthiah N.; Newsham, Mark D.; Mang, Michael N.
PATENT ASSIGNEE(S): Dow Chemical Co., USA
SOURCE: PCT Int. Appl., 31 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9403557	A1	19940217	WO 1993-US7254	19930802
W: CA, JP, KR				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
US 5288816	A	19940222	US 1992-927692	19920810
PRIORITY APPLN. INFO.:			US 1992-927692 A	19920810

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): MARPAT 122:241385
AB Aminoaryl hydrazones with optical nonlinear properties [e.g., 4,4'-diaminobenzophenone (4-nitrophenyl)hydrazone and 3-hydroxy-4-nitrobenzaldehyde (4-aminobenzoyl)hydrazone] are prepared and used as hardeners for epoxy resins, giving resins with optical nonlinear properties. The cured resins have high glass temps. and exhibit stable optical nonlinear properties during aging at high temps.
IT 162430-84-4P
RL: IMF (Industrial manufacture); POF (Polymer in formulation); PRP (Properties); PREP (Preparation); USES (Uses)
(optical nonlinear material; preparation and use as hardener for epoxy resins)
RN 162430-84-4 CAPLUS
CN Methanone, bis(4-aminophenyl)-, [4-(6-nitro-2-benzothiazolyl)phenyl]hydrazone (9CI) (CA INDEX NAME)



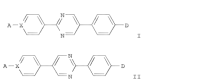
OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD
(2 CITINGS)
REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 46 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)

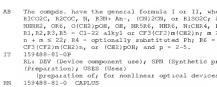
L20 ANSWER 47 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1995:271185 CAPLUS
DOCUMENT NUMBER: 122:20115
ORIGINAL REFERENCE NO.: 122:3803a,3806a
TITLE: Aromatically substituted pyrimidine derivatives, their preparation, and their use in liquid-crystal mixtures for nonlinear optics
INVENTOR(S): Goeggner, Rudolf; Engel, Harald; Lupo, Donald
PATENT ASSIGNEE(S): Hoechst A.-G., Germany
SOURCE: Ger. Offen., 32 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 4241906	A1	19940616	DE 1992-4241906	19921211
US 5527974	A	19960416	US 1993-164145	19931209
JP 06228571	A	19940816	JP 1993-312242	19931213
PRIORITY APPLN. INFO.:			DE 1992-4241906 A	19921211

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): MARPAT 122:20115
GI



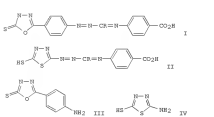
AB The compds. have the general formula I or II, where A= = NO2C, R1OCOC, R1CO2C, R2COC, N, R3N+ An-, (CN)2CH, or R1SO2C; An- = an anion; D = NR5, NHNR5, OR6, O(CH2)pOR, OR, NR3R6, NHR5, N(CH3)4, HNR(CH2)4, or NC2; E1,E2,E3,E5 = C1-22 alkyl or CF3(CF2)m(CH2)n; m ≥ 5; n ≥ 0; n + m ≤ 22; E4 = optionally substituted Ph; E6 = C1-22 alkyl, CF3(CF2)m(CH2)n, or (CH2)pOR; and p = 2-5.
IT 159488-81-0P
RL: DEV (Device component use); SPN (Synthetic preparation); PREP (Preparation), USES (Uses)
(preparation of; for nonlinear optical devices)
RN 159488-81-0 CAPLUS
CN Benzaldehyde, 4-methoxy-, 2-[2-[4-(4-pyridinyl)-5-pyrimidinyl]phenyl]hydrazone (CA INDEX NAME)



L20 ANSWER 47 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)

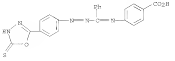
OS.CITING REF COUNT: 6 THERE ARE 6 CAPLUS RECORDS THAT CITE THIS RECORD (6 CITINGS)

L20 ANSWER 48 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1991:449541 CAPLUS
DOCUMENT NUMBER: 115:49541
ORIGINAL REFERENCE NO.: 115:8601a,8604a
TITLE: Synthesis and anti-inflammatory activity of various α-aryl[heteroarylazo]benzalanilines derivatives
AUTHOR(S): Pande, Kalpana; Kalsi, Seema; Bhalla, T. N.; Barthwal, J. P.
CORPORATE SOURCE: Dep. Pharmacol. Ther., King George's Med. Coll., Lucknow, 226 003, India
SOURCE: Indian Journal of Pharmaceutical Sciences (1989), 51(1), 18-21
CODEN: IJSIDW; ISSN: 0250-474X
DOCUMENT TYPE: Journal
LANGUAGE: English
GI

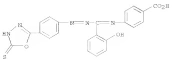


AB Title compds., e.g., I and II (R = Ph, 2-NO2C6H4, 2-furyl), were prepared by diazotization of heteroarylphenyl- and heteroarylamines, e.g., III and IV, followed by coupling reaction with RCH:NC6H4CO2H (R = Ph, 2-NO2C6H4, 2-furyl). All the compds. were tested for antiinflammatory activity.
IT 134995-12-8P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation and antiinflamatory activity of)
RN 134995-12-8 CAPLUS
CN Benzoic acid, 4-[[2-[4-(4,5-dihydro-5-thioxo-1,3,4-oxadiazol-2-yl)phenyl]diazenyl]phenylmethylene]amino]- (CA INDEX NAME)

L20 ANSWER 48 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)



IT 134895-15-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation, antiinflammatory and analgesic activity of)
RN 134895-15-1 CAPLUS
CN Benzoic acid, 4-[[[2-[4-(4,5-dihydro-5-thioxo-1,3,4-oxadiazol-2-yl)phenyl]diazenyl](2-hydroxyphenyl)methylene]amino]- (CA INDEX NAME)



OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD
(2 CITINGS)

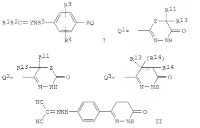
L20 ANSWER 49 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1991:228967 CAPLUS
DOCUMENT NUMBER: 114:228967
ORIGINAL REFERENCE NO.: 114:38629a,38632a
TITLE: Preparation of arylazinones for treatment of congestive heart failure
INVENTOR(S): Haikala, Heimo Olavi; Honkanen, Erkki Juhani; Lonnberg, Kari Kalevi; Nore, Pentti Tapio; Pystynen, Jarmo Johan; Luiro, Anne Maria; Pippuri, Aino Kyllikki
PATENT ASSIGNEE(S): Orion-Yhtyma Oy, Finland
SOURCE: Brit. UK Pat. Appl., 35 pp.
CODEN: BAXXDU
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 2228004	A	19900815	GB 1990-1853	19900126
GB 2228004	B	19920715		
NO 9000336	A	19900813	NO 1990-336	19900124
NO 178067	B	19951009		
NO 178067	C	19960117		
ES 2078939	T3	19960101	ES 1990-300875	19900129
ZA 9000681	A	19901031	ZA 1990-681	19900130
CZ 286036	B6	19991215	CZ 1990-557	19900206
SK 280411	B6	20000214	SK 1990-557	19900206
AU 9049296	A	19900816	AU 1990-49296	19900208
AU 619648	B2	19920130		
FI 96511	B	19960329	FI 1990-613	19900208
FI 96511	C	19960710		
CA 2009678	A1	19900811	CA 1990-2009678	19900209
CA 2009678	C	19980811		
HU 53090	A2	19900928	HU 1990-747	19900209
HU 204797	B	19920228		
JP 02288868	A	19901128	JP 1990-31339	19900209
JP 3011955	B2	20000221		
US 5019575	A	19910528	US 1990-477530	19900209
DD 293112	A5	19910822	DD 1990-337728	19900209
HU 59384	A2	19920528	HU 1991-3501	19900209
HU 206692	B	19921228		
RU 2048467	C1	19951120	RU 1990-4743235	19900209
CN 1044811	A	19900822	CN 1990-100645	19900210
CN 1036265	C	19971029		
US 5122524	A	19920616	US 1991-670338	19910315
US 5185332	A	19930209	US 1991-669867	19910315
SU 1836362	A3	19930823	SU 1991-4895242	19910505
RU 2068844	C1	19961110	RU 1992-5011896	19920629
LT 3769	B	19960325	LT 1993-1233	19930928

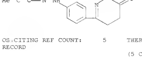
PRIORITY APPLN. INFO.: GB 1989-3130 A 19890211
US 1990-477530 A3 19900209

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): CASREACT 114:228967; MARPAT 114:228967
GI

L20 ANSWER 49 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)



AB The title compds. [I; Q = Q1-Q3; R1, R2 = NO2, cyano, halo, amino, carboxamido, aryl, aroyl, pyridyl, alkoxycarbonyl, acyl, etc.; R1R2 = atoms to complete a (heterocyclic) ring; R3, R4, R5 = H, OH, alkyl; R11, R13, R14 = H, alkyl; A = bond, CH2CH2, CH:CH; Z = S, O, NH; Y = N, CH], were prepared Thus, aqueous NaNO2 was added to a 0-5° solution of 6-(4-aminophenyl)-4,5-dihydropyridazin-3(2H)-one and HCl in H2O. After 10 min malononitrile in H2O was added the solution was stirred 1.5 h at room temperature to give title compound II. I showed cardiotonic activity in guinea pig right ventricular papillary muscle (EC50's of 0.12-1.8 μM).
IT 131741-17-8P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of, as cardiovascular agent)
RN 131741-17-8 CAPLUS
CN 1,2-Propanedione, 1-phenyl-, 1-[2-[4-(1,4,5,6-tetrahydro-6-oxo-3-pyridazinyl)phenyl]hydrazone] (CA INDEX NAME)



OS.CITING REF COUNT: 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD
(5 CITINGS)

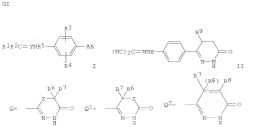
L20 ANSWER 50 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1991:81895 CAPLUS
DOCUMENT NUMBER: 114:81895
ORIGINAL REFERENCE NO.: 114:13993a,13996a
TITLE: Preparation of p-heterocyclyl- or p-heterocyclylethenylaniline and -phenylhydrazones for treatment of congestive heart failure
INVENTOR(S): Haikala, Heimo Olavi; Nore, Pentti Tapio; Honkanen, Erkki Juhani; Pystynen, Jarmo Johan; Lonnberg, Kari Kalevi; Luiro, Anne Maria; Pippuri, Aino Kyllikki
PATENT ASSIGNEE(S): Orion-Yhtyma Oy, Finland
SOURCE: Eur. Pat. Appl., 21 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 383449	A2	19900822	EP 1990-300875	19900129
EP 383449	A3	19910703		
EP 383449	B1	19950906		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL				
NO 9000336	A	19900813	NO 1990-336	19900124
NO 178067	B	19951009		
NO 178067	C	19960117		
ES 2078939	T3	19960101	ES 1990-300875	19900129
ZA 9000681	A	19901031	ZA 1990-681	19900130
CZ 286036	B6	19991215	CZ 1990-557	19900206
SK 280411	B6	20000214	SK 1990-557	19900206
AU 9049296	A	19900816	AU 1990-49296	19900208
AU 619648	B2	19920130		
FI 96511	B	19960329	FI 1990-613	19900208
FI 96511	C	19960710		
CA 2009678	A1	19900811	CA 1990-2009678	19900209
CA 2009678	C	19980811		
HU 53090	A2	19900928	HU 1990-747	19900209
HU 204797	B	19920228		
JP 02288868	A	19901128	JP 1990-31339	19900209
JP 3011955	B2	20000221		
US 5019575	A	19910528	US 1990-477530	19900209
DD 293112	A5	19910822	DD 1990-337728	19900209
HU 59384	A2	19920528	HU 1991-3501	19900209
HU 206692	B	19921228		
RU 2048467	C1	19951120	RU 1990-4743235	19900209
CN 1044811	A	19900822	CN 1990-100645	19900210
CN 1036265	C	19971029		
US 5122524	A	19920616	US 1991-670338	19910315
US 5185332	A	19930209	US 1991-669867	19910315
SU 1836362	A3	19930823	SU 1991-4895242	19910505
RU 2068844	C1	19961110	RU 1992-5011896	19920629
LT 3769	B	19960325	LT 1993-1233	19930928

PRIORITY APPLN. INFO.: GB 1989-3130 A 19890211
US 1990-477530 A3 19900209

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): MARPAT 114:81895

GI



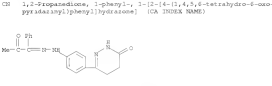
AB The title compds. [I; R = Q, Q1, Q2; R6, R7, R8 = H, alkyl; Z = S, O, NR; A = bond, CR1R2, CH2CR1; R1, R2 = NO2, cyano, halo, NR2, CONR2, aryl, aroyl, pyridyl, alkoxycarbonyl, acyl, etc.; R3-R5 = H, NO2, alkyl], useful as cardiotonics, antihypertensives, and vasodilators, are prepared. Thus, 0.78 g NaOEt in MeOH was added at 0-5° a stirred solution of 0.95 g 6-(4-aminophenyl)-4,5-dihydropyridazin-3(2H)-one in aqueous HCl; after 10 min, 0.23 g (NC)2CH2 in MeOH was added and the resulting solution was stirred 1.5 h at room temperature and adjusted to pH 6.0 with a AcONa solution to give 1.25 g phenylidihydropyridazin-3(2H)-one (II; R9 = H). I were more potent phosphodiesterase isoenzyme (PDE) III inhibitors in dog and guinea-pig heart muscle than MCI-154, milrinone, adibendan, and pimobendan and had significant Ca-dependent binding to troponin. However the cardiotonic activity of I was independent of the extracellular Ca and also the inhibition of PDE III and rather based on the enhancement of the turnover of Ca released from sarcoplasmic reticulum and/or the increase of Ca sensitivity of contractile proteins. II (R5 = Me) showed cardiotonic effect in guinea-pig papillary muscle with ED50 of 0.17 and 0.16 μM in the absence and presence of carbachol, resp. and at 100 μM induced toxic overaction in the absence of extracellular Ca.

IT 131741-17-8P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, for treatment of congestive heart failure)

RN 131741-17-8 CAPLUS

CN 1,2-Propanedione, 1-phenyl-, 3-[2-[4-[1,4,5,6-tetrahydro-6-oxo-3-pyridazinyl]phenyl]hydrazone] (CA INDEX NAME)



OS.CITING REF COUNT: 11 THERE ARE 11 CAPLUS RECORDS THAT CITE THIS RECORD (12 CITINGS)

ACCESSION NUMBER: 1990:571973 CAPLUS
DOCUMENT NUMBER: 113:171973
ORIGINAL REFERENCE NO.: 113:29172h,29173a

TITLE: Nonsteroidal cardiotonics. 3. New 4,5-dihydro-6-(1H-indol-5-yl)pyridazin-3(2H)-ones and related compounds with positive inotropic activities

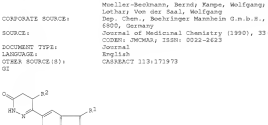
AUTHOR(S): Mertens, Alfred; Friebe, Walter Gunar; Moeller-Seohmann, Bernd; Kampe, Wolfgang; Kling, Lothar; Von der Saal, Wolfgang

CORPORATE SOURCE: Dep. Chem., Boehringer Mannheim G.m.b.H., Mannheim, 6800, Germany

SOURCE: Journal of Medicinal Chemistry (1990), 33(10), 2870-5
CODEN: JMCMAR; ISSN: 0022-2623

DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 113:171973

GI



AB A series of substituted indolylidihydropyridazinones I (R = Ph, CO2Et, 3-, 4-pyridyl, 4-MeC6H4; R1 = H, Me, Et, CH2Ph; R2 = H, Me) and related compds. were synthesized and evaluated for pos. inotropic activity. In rats, most of these indole derivs. produced a dose-related increase in myocardial contractility with little effect on heart rate and blood pressure. I (R = 4-pyridyl, R1 = H, R2 = Me), (II, BM 50.0436), was further investigated in cats. The increase in contractility in this animal model was not mediated via stimulation of β-adrenergic receptors. After oral administration of 1 mg/kg to conscious dogs, II and pimobendan were still active after 6.5 h. However, the cardiotonic effect of II was at least 2-fold that of pimobendan after this period of time. The structural requirements for optimal cardiotonic activity within this class of indole derivs. are a heterocyclic aromatic ring in position 2, a hydrogen or a Me group in position 3 and a dihydropyridazinone ring system in position 5 of the indole.

IT 129593-88-0P 129593-89-1P 129593-90-4P
129593-91-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and cyclization of, indole deriv. from)

RN 129593-88-0 CAPLUS

CN 3(2H)-Pyridazinone, 4,5-dihydro-6-[4-[2-[1-phenylethylidene]hydrazinyl]phenyl]- (CA INDEX NAME)

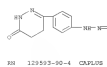
RECORD (23 CITINGS)

RN 129593-89-1 CAPLUS

CN 3(2H)-Pyridazinone, 4,5-dihydro-6-[4-[2-[1-(4-methoxyphenyl)ethylidene]hydrazinyl]phenyl]- (CA INDEX NAME)

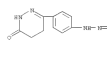
RN 129593-90-4 CAPLUS

CN 3(2H)-Pyridazinone, 4,5-dihydro-6-[4-[2-[1-[4-(methylthio)phenyl]ethylidene]hydrazinyl]phenyl]- (CA INDEX NAME)



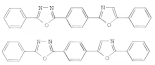
RN 129593-91-5 CAPLUS

CN 3(2H)-Pyridazinone, 4,5-dihydro-6-[4-[2-[1-(4-hydroxyphenyl)ethylidene]hydrazinyl]phenyl]- (CA INDEX NAME)

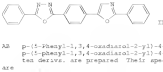


OS.CITING REF COUNT: 14 THERE ARE 14 CAPLUS RECORDS THAT CITE THIS RECORD (14 CITINGS)

L20 ANSWER 52 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1990:456239 CAPLUS
DOCUMENT NUMBER: 113:6239
ORIGINAL REFERENCE NO.: 113:1215a,1214a
TITLE: Synthesis and spectroscopic characteristics of two heterocyclic pentadienes containing oxygen and nitrogen
AUTHOR(S): Pan, Jiaxing; Chen, Jingshan; Kao, Chenheng
CORPORATE SOURCE: Dep. Chem., Nankai Univ., Tianjin, Peop. Rep. China
SOURCE: Gaodeng Xuexiao Huaxue Xuebao (1989), 10(10), 1012-16
CODEN: HYHPDM; ISSN: 0251-0790
DOCUMENT TYPE: Journal
LANGUAGE: Chinese
GI

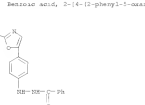


I



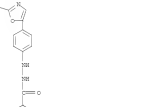
II

AB p-(5-Phenyl-1,3,4-oxadiazol-2-yl)-4-(5-phenyloxazol-2-yl)benzene (I) and p-(5-phenyl-1,3,4-oxadiazol-2-yl)-4-(2-phenyloxazol-5-yl)benzene (II) and ten derivs. are prepared Their spectra and laser conversion efficiency are
oExamined.
IT 127591-17-7 127591-18-8 127591-19-9
127591-20-2 127591-21-3
RL: RCT (Reactant); RACT (Reactant or reagent)
(cyclization of, in presence of phosphoryl chloride)
RN 127591-17-7 CAPLUS
CN Benzoic acid, 2-[4-(2-phenyl-5-oxazolyl)phenyl]hydrazide (CA INDEX NAME)



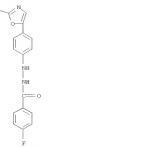
RN 127591-18-8 CAPLUS
CN Benzoic acid, 4-fluoro-, 2-[4-(2-phenyl-5-oxazolyl)phenyl]hydrazide (CA INDEX NAME)

L20 ANSWER 52 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)

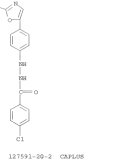


RN 127591-21-3 CAPLUS
CN Benzoic acid, 4-nitro-, 2-[4-(2-phenyl-5-oxazolyl)phenyl]hydrazide (CA INDEX NAME)

L20 ANSWER 52 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)



RN 127591-19-9 CAPLUS
CN Benzoic acid, 4-chloro-, 2-[4-(2-phenyl-5-oxazolyl)phenyl]hydrazide (CA INDEX NAME)

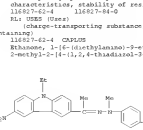


RN 127591-20-2 CAPLUS
CN Benzoic acid, 4-bromo-, 2-[4-(2-phenyl-5-oxazolyl)phenyl]hydrazide (CA INDEX NAME)

L20 ANSWER 53 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1989:21346 CAPLUS
DOCUMENT NUMBER: 110:21346
ORIGINAL REFERENCE NO.: 110:5125a,5126a
TITLE: Electrophotographic photoreceptor containing hydrazone compound
INVENTOR(S): Suguchi, Masami; Nakajima, Yuko
PATENT ASSIGNEE(S): Toshiba Corp., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

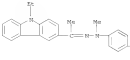
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 63060454	A	19880316	JP 1986-203768	19860901
PRIORITY APPLN. INFO.:			JP 1986-203768	19860901

GI For diagram(s), see printed CA Issue.
AB In the title electrophotog. photoreceptor, a photosensitive layer containing
R1 hydrazone compound (as a charge-transporting substance)
represented by 2-V [R1-R5, R11 = H, (un)substituted alkyl, aralkyl, aryl, heterocyclyl; R1 of R1 and R2 may be a (un)substituted heterocyclic group when n = 0 or except for R1 = R2 = H; R1 and R2 may form a hydrocarbon ring group or heterocyclic group; when n = 0, R11 H; R6-R9 = H, halogen, alkyl, alkoxy, aryloxy, amino which may be substituted with alkyl or aryl; R10 = substituted heterocyclic group; X = N, S, O; inino; Z = (un)substituted condensed polycyclic aromatic hydrocarbon group].
The
electrophotog. photoreceptor shows improved photosensitivity, charge characteristics, stability of residual potential, and durability.
IT 116827-64-4
RL: USES (Uses)
(charge-transporting substance, electrophotog. photoreceptor containing)
RN 116827-64-4 CAPLUS
CN Ethanone, 1-[4-(diethylamino)-3-ethyl-9H-carbazol-9-yl]-, 2-methyl-2-[4-(1,2,4-thiadiazol-3-yl)phenyl]hydrazone (CA INDEX NAME)



RN 116827-84-0 CAPLUS
CN Ethanone, 1-[9-ethyl-9H-carbazol-3-yl]-, 2-methyl-2-[4-(1,2,4-thiadiazol-3-yl)phenyl]hydrazone (CA INDEX NAME)

L20 ANSWER 53 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)



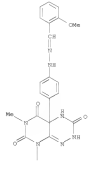
L20 ANSWER 54 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1988:131765 CAPLUS
DOCUMENT NUMBER: 108:131765
ORIGINAL REFERENCE NO.: 108:21619a,21622a
TITLE: Synthesis and some properties of 4a derivatives of 6,8-dimethylpyrimido[5,4-e][1,2,4]triazine-5,7,-trione
AUTHOR(S): Asev, Yu. A.; Mostovova, T. I.; Sukorov, E. O.; Fidenskii, E. L.; Goleneva, A. F.; Aleksandrova, G.
CORPORATE SOURCE: Ural. Politekh. Inst., Sverdlovsk, USSR
SOURCE: Khimiko-Farmatsevticheskii Zhurnal (1987), 21(7), 829-33
CODEN: KFZAN; ISSN: 0023-1134
DOCUMENT TYPE: Journal
LANGUAGE: Russian
OTHER SOURCE(S): CASREACT 108:131765
GI

I

AB 4A-Deriv. of 2,3,4,4a,5,6,7,9-octahydro-6,8-dimethylpyrimido[5,4-e]1triazine-5,7,-trione (ferrenalen-5-one) (I) were prepared via its reaction with indole, phenylhydrazine, o-phenylenediamine, and 1-phenyl-3-methyl-2-pyrazolin-5-one. The FMMHB2 derivative was converted to
Schiff bases with p-MeOC6H4CHO and 5-nitrofurfural. The phenylenediamine
were converted to the corresponding benzimidazolethione by CS2.
IT 113458-66-5P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 113458-66-5 CAPLUS
CN Benzaldehyde, 2-methoxy-, 2-[4-(7,4,5,6,7,8-hexahydro-6,8-dimethyl-5,7-trioxopyrimido[5,4-e]-1,2,4-triazin-4a(3H)-yl)phenylhydrazone (CA INDEX NAME)

L20 ANSWER 54 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)

PAGE 1-A



PAGE 2-A

OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

L20 ANSWER 55 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1987:236567 CAPLUS
DOCUMENT NUMBER: 107:236567
ORIGINAL REFERENCE NO.: 107:38005a,38008a
TITLE: The 2-arenesulfonyl-1,3-dithiolium cation - a reactive electrophile
AUTHOR(S): Tschoetsch, Christoph; Richter, Andreas; Junghanenel, Egon
CORPORATE SOURCE: Sekt. Chem., Tech. Hochsch. "Carl Schorlemmer", Merseburg, DDR-4200, Ger. Dem. Rep.
SOURCE: Seitschrift fuer Chemie (1987), 27(1), 26-7
CODEN: ZECAL; ISSN: 0044-2402
DOCUMENT TYPE: Journal
LANGUAGE: German
OTHER SOURCE(S): CASREACT 107:236567
GI

I

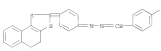
II

III

AB Reaction of arenesulfonyldithiolium salts I [R, R1 = H, SMe, R1 = (CH2)4, 1,2-naphtho] with PhNHN:C7H3(R2 = H, Me, Ph; R3 = Ph, PhCH:CH, PhN:N, 4-O2NC6H4, R3R3 = C6C6CH2CH2CH2CO) gave 58-85% dye salt II. Deprotonation of II (R3 = 1,2-naphtho, R2 = H, R3 = 4-O2NC6H4) with Et3N gave 84% dye III.
IT 100983-85-5P
RL: PCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and deprotonation of)
RN 100983-85-5 CAPLUS
CN Benzaldehyde, 4-nitro-, 2-[4-(4,5-dihydronaphtho[1,2-d]-1,3-dithiol-2-ylidene)-2,5-cyclohexadien-1-ylidene]hydrazone, perchlorate (1:1) (CA INDEX NAME)

CM 1

CRN 100983-84-4
CMF C24 H17 N3 O2 S2



CM 2

CRN 7601-90-3
CMF C1 H O4

IT 100983-71-9P 100983-75-3P 100983-77-5P
100983-81-1P 100983-83-3P 100983-84-4P
111259-88-2P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 100983-71-9 CAPLUS
CN Benzaldehyde, 2-[4-(4,5,6,7-tetrahydro-1,3-benzodithiol-2-ylidene)-2,5-cyclohexadien-1-ylidene]hydrazone, perchlorate (1:1) (CA INDEX NAME)

CM 1

CRN 100983-70-8
CMF C20 H15 N2 S2

CM 2

CRN 7601-90-3
CMF C1 H O4

RN 100983-75-3 CAPLUS

RN 100983-81-1 CAPLUS
CN Benzaldehyde, 2-[4-(1,3-dithiol-2-ylidene)-2,5-cyclohexadien-1-ylidene]hydrazone, perchlorate (1:1) (CA INDEX NAME)

CM 1

CRN 100983-80-0
CMF C16 H12 N2 S2

CM 2

CRN 7601-90-3
CMF C1 H O4

RN 100983-83-3 CAPLUS
CN Benzaldehyde, 2-[4-[4,5-bis(methylthio)-1,3-dithiol-2-ylidene]-2,5-cyclohexadien-1-ylidene]hydrazone, perchlorate (1:1) (CA INDEX NAME)

CM 1

CRN 100983-82-2
CMF C18 H16 N2 S4

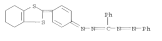
CM 2

CRN 7601-90-3

CM 2,5-Cyclohexadien-1-one,
4-(4,5,6,7-tetrahydro-1,3-benzodithiol-2-ylidene)-
, 2-(phenyl[2-phenyldibenzyl]methylene)hydrazone, perchlorate (1:1) (CA INDEX NAME)

CM 1

CRN 100983-74-2
CMF C26 H22 N4 S2



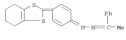
CM 2

CRN 7601-90-3
CMF C1 H O4

RN 100983-77-5 CAPLUS
CN 2,5-Cyclohexadien-1-one,
4-(4,5,6,7-tetrahydro-1,3-benzodithiol-2-ylidene)-
, 2-(1-phenylethylidene)hydrazone, perchlorate (1:1) (CA INDEX NAME)

CM 1

CRN 100983-76-4
CMF C21 H20 N2 S2



CM 2

CRN 7601-90-3
CMF C1 H O4

CMF C1 H O4

RN 100983-84-4 CAPLUS
CN Benzaldehyde, 4-nitro-, 2-[4-(4,5-dihydronaphtho[1,2-d]-1,3-dithiol-2-ylidene)-2,5-cyclohexadien-1-ylidene]hydrazone (CA INDEX NAME)

RN 111259-88-2 CAPLUS
CN Benzaldehyde, 2-[4-(4,5,6,7-tetrahydro-1,3-benzodithiol-2-ylidene)-2,5-cyclohexadien-1-ylidene]hydrazone, hydriodide (1:1) (CA INDEX NAME)

● HI

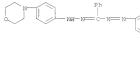
L20 ANSWER 56 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1984:139365 CAPLUS
DOCUMENT NUMBER: 104:139365
ORIGINAL REFERENCE NO.: 104:21877a,21880a
TITLE: Image recording by color bleaching
INVENTOR(S): Bahnemann, Detlef; Bertold, Thomas; Hennig, Horst; Thomas, Philipp; Marx, Joerg
PATENT ASSIGNEE(S): Karl-Marx-Universitaet Leipzig, Ger. Dem. Rep.
SOURCE: Ger. (East), 8 pp.
CODEN: GEXXA8
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DD 224412	A1	19850703	DD 1984-263541	19840530
PRIORITY APPLN. INFO.:			DD 1984-263541	19840530

GI

I

AB A high-sensitivity, dye-bleaching type imaging recording process is described which uses a fornazan or a fornazan metal complex (I; R = an aromatic or heteroarom. moiety; R1, R2 = an aromatic moiety; M = H or a metal
ion; n = 1-3), a photooxidant, and, if necessary, a polymer binder and a sensitizer. After exposure, the material is fixed by heating for a short time at 150°. Thus, a filter paper was immersed in a solution containing
1-(2-pyridyl)-3-phenyl-5-(4-N-morpholinophenyl)formazan 50, CBr4 50, and CHCl3 30 mL, dried, and exposed for 5 s to a Hg vapor lamp to show bleaching of the red-violet dye in the exposed areas. The resultant image
was then fixed through heating at 150° for a min.
IT 102152-89-2
RL: USES (Uses)
(photoimaging compns. containing, dye-bleaching type, with high sensitivity)
RN 102152-89-3 CAPLUS
CN Methanone, phenyl[2-(2-pyridinylhydrazinylidene)-1-, 2-[4-(4-morpholinyl)phenyl]hydrazone (CA INDEX NAME)

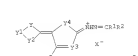


L20 ANSWER 57 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1984:111371 CAPLUS
DOCUMENT NUMBER: 104:111371
ORIGINAL REFERENCE NO.: 104:17655a,17658a
TITLE: Acid hydrazonio-(het)aryl-heterocyclium salts
INVENTOR(S): Farghaenel, Egon; Richter, Andreas M.; Koehnemann, Karl Heinz; Tschoetsch, Christoph
PATENT ASSIGNEE(S): Technische Hochschule "Carl Schorlemmer" Leuna-Merseburg, Ger. Dem. Rep.
SOURCE: Ger. (East), 8 pp.
CODEN: GEXXA8
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DD 217039	A1	19850109	DD 1983-251456	19830531
PRIORITY APPLN. INFO.:			DD 1983-251456	19830531

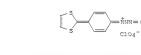
GI

I

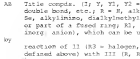


II

III



IV



V

AB Title compds. (I; Y, Y1, Y2 = O, S, Se, alkylimino, dialkylmethylene, C-C double bond, etc.; R = H, alkyl, alkylthio, etc.; Y3 = H or C; Y4 = O, S, Se, alkylimino, dialkylmethylene, C-C double bond optionally substituted or part of a fused ring; R1, R2 = H, alkyl, aryl, etc.; X- = organic or inorg. anion, which can be used as dyes or intermediates, are prepared by
reaction of II (R3 = halogen, alkylthio, arylthio; Y, Y1, Y2, X- as defined above) with III (R, R1, R2, Y3, Y4 as defined above) in an organic
solvent at 0-100°. General procedures are described for preparation of IV (75% yield), V (58% yield), and 6 other I.
IT 100983-71-9P 100983-75-3P 100983-77-5P
100983-81-1P 100983-83-3P 100983-85-5P
RL: IMF (Industrial manufacture); PREP (Preparation)
(preparation of)

L20 ANSWER 56 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)

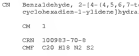
L20 ANSWER 57 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)
RN 100983-71-9 CAPLUS
CN Benzaldehyde, 2-[4-(4,5,6,7-tetrahydro-1,3-benzodithiol-2-ylidene)-2,5-cyclohexadien-1-ylidene]hydrazone, perchlorate (1:1) (CA INDEX NAME)

CM 1

CRN 100983-70-8
CMF C20 H18 N2 S2

CM 2

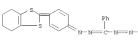
CRN 7601-90-3
CMF Cl H O4



RN 100983-75-3 CAPLUS
CN 2,5-Cyclohexadien-1-one, 4-(4,5,6,7-tetrahydro-1,3-benzodithiol-2-ylidene)-, 2-[phenyl(2-phenylhydrazinyl)methylene]hydrazone, perchlorate (1:1) (CA INDEX NAME)

CM 1

CRN 100983-74-2
CMF C26 H22 N4 S2



CM 2

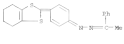
CRN 7601-90-3
CMF Cl H O4

L20 ANSWER 57 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)

RN 100983-77-5 CAPLUS
CN 2,5-Cyclohexadien-1-one,
4-(4,5,6,7-tetrahydro-1,3-benzodithiol-2-ylidene)-
, 2-(1-phenylethylidene)hydrazone, perchlorate (1:1) (CA INDEX NAME)

CM 1

CRN 100983-76-4
CMF C21 H20 N2 S2



CM 2

CRN 7601-90-3
CMF Cl H O4

RN 100983-81-1 CAPLUS
CN Benzaldehyde, 2-[4-(1,3-dithiol-2-ylidene)-2,5-cyclohexadien-1-
ylidene]hydrazone, perchlorate (1:1) (CA INDEX NAME)

CM 1

CRN 100983-80-0
CMF C16 H12 N2 S2

CM 2

CRN 7601-90-3

L20 ANSWER 57 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)

CM 2

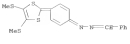
CRN 7601-90-3
CMF Cl H O4

L20 ANSWER 57 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)
CMF Cl H O4

RN 100983-82-2 CAPLUS
CN Benzaldehyde, 2-[4-[4,5-bis(methylthio)-1,3-dithiol-2-ylidene]-2,5-
cyclohexadien-1-ylidene]hydrazone, perchlorate (1:1) (CA INDEX NAME)

CM 1

CRN 100983-82-2
CMF C19 H16 N2 S4



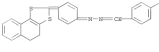
CM 2

CRN 7601-90-3
CMF Cl H O4

RN 100983-85-5 CAPLUS
CN Benzaldehyde, 4-nitro-, 2-[4-[4,5-dihydronaphtho[1,2-d]-1,3-dithiol-2-
ylidene]-2,5-cyclohexadien-1-ylidene]hydrazone, perchlorate (1:1) (CA
INDEX NAME)

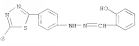
CM 1

CRN 100983-84-4
CMF C24 H17 N3 O2 S2



L20 ANSWER 58 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1985:127120 CAPLUS
DOCUMENT NUMBER: 102:127120
ORIGINAL REFERENCE NO.: 102:19885a,19888a
TITLE: Antiphytoviral compounds with noncyclic azine structure
AUTHOR(S): Schuster, G.; Heinisch, L.; Schulze, W.; Ulbricht, H.; Willitzer, H.
CORPORATE SOURCE: Sekt. Biowiss., Karl-Marx-Univ. Leipzig, Leipzig, DDR-7010, Ger. Dem. Rep.
SOURCE: Phytopathologische Zeitschrift (1984), 111(2), 97-113
CODEN: PHTZAJ; ISSN: 0031-9481
DOCUMENT TYPE: Journal
LANGUAGE: German
AB The antiphytoviral activities of variously substituted compds. with noncyclic azine structures were studied. Of a total of 90 tested compds. 42 had the effect of more or less strongly inhibiting the concentration of potato
virus X (PVX) in inoculated and (or) secondarily infected leaves of Nicotiana tabacum cv Samsun. In effect on the virion of PVX in vitro was not be observed. Thus, the substances may interact with the virus replication. Some of them also reduced the number of local lesions caused by
tobacco mosaic virus on leaves of N. glutinosa. Several compds. were excellent synergists of 2,4-dioxohexahydro-1,3,5-triazine (DHT) [17032-78-6]. Pyridine-3-aldehyde-S-ethyl-isothiosemicarbazone [66049-17-0] and 1-ethyl-isatine-S-ethyl-isothiosemicarbazone Cu complex when used in combination with DHT greatly increased the mass of potato tubers produced from plantlets derived from potato eye cuttings, as compared with the identical control. Simultaneously the mentioned substances reduced the number of sympton-bearing eye cutting plants. Quinoline-2-aldehyde-N-oxide-S-allyl-isothiosemicarbazone [63332-83-2] greatly reduced the number of sympton-bearing plants, without substantially
influencing the mass of tubers. Thus, one compds. with noncyclic azine structure, especially when used in combination with DHT, may be of high interest
for practical application. Comparing the structures of compds. with noncyclic azine structure active against plant or human viruses, the antiphytoviral compds. are only infrequently active against animal viruses
and vice versa. However, the compds. active in these 2 different virus host systems often are closely related structurally.
IT 91574-76-4 95397-69-6
RL: BAC (Biological activity or effector, except adverse); BSU (Biological
study, unclassified); BIOL (Biological study)
(phytoviruscidal activity of, structure in relation to)
RN 91574-76-4 CAPLUS
CN Benzaldehyde, 2-hydroxy-, 2-[4-[5-(methylth)o]-1,3,4-thiadiazol-2-
yl]phenyl]hydrazone (CA INDEX NAME)

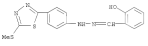
L20 ANSWER 58 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)



RN 95397-69-6 CAPLUS
CN Benzaldehyde, 2-[4-[5-(methylthio)-1,3,4-thiadiazol-2-yl]phenyl]hydrazone (CA INDEX NAME)

OS.CITING REF COUNT: 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)

L20 ANSWER 59 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)

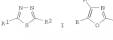


RN 91574-76-4 CAPLUS
CN Benzaldehyde, 2-hydroxy-, 2-[4-[5-(methylthio)-1,3,4-thiadiazol-2-yl]phenyl]hydrazone (CA INDEX NAME)

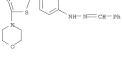
L20 ANSWER 59 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1984:524891 CAPLUS
DOCUMENT NUMBER: 101:124891
ORIGINAL REFERENCE NO.: 101:19939a,19942a
TITLE: Agent for chemotherapy of crop viruses
INVENTOR(S): Schuster, Gottfried; Kocharov, Werner; Kraner, Wilfried; Steinke, Walter; Hoerinqkles, Walter; Winter, Harald; Steinke, Ulrich; Exner, Gerhard; Banssch, Christoph; et al.
PATENT ASSIGNEE(S): Ger. Dem. Rep.
SOURCE: Ger. East, 26 pp.
CODEN: GEXXA8
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DD 160762	A3	19840307	DD 1981-226754	19810331
PRIORITY APPLN. INFO.:			DD 1981-229754	19810731

GI



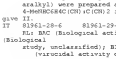
AB The plant virucidal activity of 2,4-diozohexahydro-1,3,5-triazine [27032-78-6] is synergized by a thiadiazole I (R1 and R2 = NR3, alkylamino, arylamino, etc.), and/or an oxazole II (R = alkyl, Ph, or hydroxyalkyl; R1 = alkyl, Ph, CN, or COOR; R2 = NH2, guanyl, etc.) and/or a hydrazone R1RSC:NN:CHR3R4 (R1 and R2 = H, SR, CN, heterocyclic radical, etc., R3 and R4 = H, SR, CN, etc.). Thus, the inhibitory effect of 2,4-diozohexahydro-1,3,5-triazine on potato virus X, in secondarily-injected Nicotiana tabacum leaves, was enhanced by pyridin-3-aldehyde 8-ethylisothiosemiarbazone [66049-17-0].
IT 91574-73-1 91574-76-4
RL: BIOL (Biological study)
(plant-virucidal activity of diozohexahydrotriazine enhancement by)
RN 91574-73-1 CAPLUS
CN Benzaldehyde, 2-[4-[5-[4-morpholinyl)-1,3,4-thiadiazol-2-yl]phenyl]hydrazone (CA INDEX NAME)



L20 ANSWER 60 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1982:606285 CAPLUS
DOCUMENT NUMBER: 97:6285
ORIGINAL REFERENCE NO.: 97:1219a,1222a
TITLE: Substituted 5-amino-4-cyanooxazoles
INVENTOR(S): Willitzer, Horst; Toney, Marion
PATENT ASSIGNEE(S): Akademie der Wissenschaften der DDR, Ger. Dem. Rep.
SOURCE: Ger. (East), 7 pp.
CODEN: GEXXA8
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DD 152786	A1	19811209	DD 1980-223507	19800826
PRIORITY APPLN. INFO.:			DD 1980-223507	A1 19800826

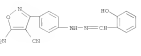
OTHER SOURCE(S): CASREACT 97:6285
GI



AB I (R = alkyl, aralkyl, aryl, arylmethyleneamino; R1 = H, alkyl, aryl, aralkyl) were prepared and tested as virucides. Thus, 4-MeNHCS4C(CN)=C(CN)2 in DMF was cyclized with aqueous NR2OR-KOH to give II.
IT 81961-28-6 81961-29-7
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)
(virucidal activity of)
RN 81961-28-6 CAPLUS
CN 4-Isoxazolecarbonitrile, 5-amino-3-[4-[2-[(4-methoxyphenyl)methylene]hydrazinyl]phenyl]- (CA INDEX NAME)

RN 81961-29-7 CAPLUS
CN 4-Isoxazolecarbonitrile, 5-amino-3-[4-[2-[[2-hydroxyphenyl)methylene]hydrazinyl]phenyl]- (CA INDEX NAME)

L20 ANSWER 60 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)



L20 ANSWER 61 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)

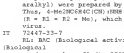
CM 2

CRN 14797-73-0
CMF Cl O4

L20 ANSWER 62 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1980:42001 CAPLUS
DOCUMENT NUMBER: 92:42001
ORIGINAL REFERENCE NO.: 92:7013a,7014a
TITLE: 5-Amino-3-alkyl(or aralkyl)-mercapto-6-(p-substituted aminophenyl)-1,2,4-triazines
INVENTOR(S): Willitzer, Horst; Tonew, Marion; Tonew, Emil
PATENT ASSIGNEE(S): Akademie der Wissenschaften der DDR, Zentralinstitut fuer Mikrobiologie und Experimentelle Therapie, Ger. Dem. Rep.
SOURCE: Ger. (East), 7 pp.
CODEN: GEXXA8
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

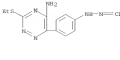
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DD 136962	A1	19790808	DD 1978-205869	19780608
PRIORITY APPLN. INFO.:			DD 1978-205869	A1 19780608

GI



AB The virustatic compds. I (R = alkyl, aralkyl; R1 = optionally substituted alkyl, aralkyl, aryl, or PhCH:N; R2 = H, optionally substituted alkyl or aralkyl) were prepared by the cyclization of 6-ClCH2CSNHC(:CH):NNH(R):NH2. Thus, 4-MeCH2CSNHC(:CH):NNH(PhCH:)NH was heated in HOCH2CH2OH to give 87% 1 (R = R1 = R2 = Me), which had a therapeutic index of 32 against mengo

IT 72447-33-7
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)
(virucidal activity of)
RN 72447-33-7 CAPLUS
CN Benzaldehyde, 2-[4-[5-amino-3-(ethylthio)-1,2,4-triazin-6-yl]phenyl]hydrazone (CA INDEX NAME)



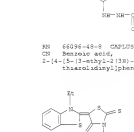
L20 ANSWER 63 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1980:34983 CAPLUS
DOCUMENT NUMBER: 92:34983
ORIGINAL REFERENCE NO.: 92:5771a,5772a
TITLE: Correlation analysis of pyrimidine folic acid antagonists as antibacterial agents. I
AUTHOR(S): Coats, Eugene A.; Genther, Clara S.; Smith, Carl C.
CORPORATE SOURCE: Coll. Pharm., Univ. Cincinnati, Cincinnati, OH, 45267,
USA
SOURCE: European Journal of Medicinal Chemistry (1979), 14(3), 283-70
CODEN: EJMCA5; ISSN: 0009-4374
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The activities of 179 pyrimidines as inhibitors of Streptococcus faecium, Lactobacillus casei, and Pediococcus cerevisiae are reported. In addition, the mode of action according to the ability of folic acid [59-30-3] or folinic acid [58-05-9] to reverse the inhibitory effect of the pyrimidines was determined. The 2,4-diamino substituent pattern appeared to be the dominant but not the sole factor controlling mode of action. Quant. structure-activity relations using regression anal., substituent consts., and indicator variables were developed in an effort to delineate influences on potency and to quant. differences between the test systems. Although aromatic and/or; lipophilic substituents at the 5 position of 2,4-diaminopyrimidines enhanced folate reversible inhibition against all 3 systems the derived equations quant. establish differences in and limitations on the extent of this effect.
IT 73884-61-4
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)
(bacteriostatic activity of, structure in relation to)
RN 73884-61-4 CAPLUS
CN 2,4-Pyrimidinediamine, 5-[4-[2-[(4-chlorophenyl)methyl]-2-oxindolizinyl]phenyl]-6-ethyl- (CA INDEX NAME)

OS.CITING REF COUNT: 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)

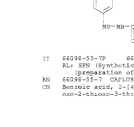
L20 ANSWER 64 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1978:144307 CAPLUS
DOCUMENT NUMBER: 88:144307
ORIGINAL REFERENCE NO.: 88:22637a,22638a
TITLE: Photographic recording material
INVENTOR(S): Leone, Ronald Edmund; Elwood, James Kenneth
PATENT ASSIGNEE(S): Eastman Kodak Co., USA
SOURCE: Ger. Offen., 70 pp.
CODEN: GMXXEX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2729147	A1	19780105	DE 1977-2729147	19770628
US 4090207	A	19780321	US 1976-700901	19760629
CA 1078848	A1	19800603	CA 1976-261439	19760917
FR 2356972	A1	19780127	FR 1977-19727	19770628
FR 2356972	B1	19790720		
BE 856284	A1	19771229	BE 1977-178923	19770629
JP 51003726	A	19760113	JP 1977-76457	19770629
GB 1587471	A	19810128	GB 1977-27237	19770629
PRIORITY APPLN. INFO.:			US 1976-700901	A 19760629

AB Direct-pos. color photog. recording materials are described which consist of a support coated with a Ag halide emulsion layer containing metal-doped Ag halide grains having adsorbed on their surface a heterocyclic N-(arylhydrazinophenyl)thioamide at 0.5-75 mg/mol Ag as a nucleus-forming agent. Upon exposure these materials give internal latent images. Some 19 heterocyclic N-(arylhydrazinophenyl)thioamides are described. Thus, a poly(ethylene terephthalate) support was coated with an image-receptor layer, a reflecting layer, an opaque layer, a layer containing a color developer, and a blue-sensitive direct-pos. gelatin-AgBr emulsion containing 5-(3-ethyl-2-benzothiazolylidene)-3-[4-(2-formylhydrazino)phenyl]rhodanine 6 mg/mol Ag. Upon sensitometric exposure and development with a composition containing KOH 56.0, 4-hydroxymethyl-4-methyl-1-phenyl-3-pyrazolidone 8.8, 5-methylbenzotriazole 2.4, tert-butylhydroquinone 0.5, NaBiO3 2.0, carbon black 40.0, hydroxyethyl cellulose 25.0 g, and water to 1 l., the photog. film gave a Dmax of 2.15, a Dmin of 0.16 and a relative sensitivity of 42 vs. 2.49, 0.16, and 100, resp., for a control containing 1-acetyl-2-[4-[5-amino-2-(2,4-di-tert-pentylphenoxy)benzamido]phenyl]hydrazine 2000 mg/mol Ag.
IT 66096-45-5 66096-48-8
RL: USES (Uses)
(photog. foggant, for color direct-pos. emulsions)
RN 66096-45-5 CAPLUS
CN Benzoic acid, 2-[4-[5-[5-methyl-2(3H)-benzoxazolylidene)-4-oxo-2-thioxo-3-thiazolidinyl]phenyl]hydrazide (CA INDEX NAME)



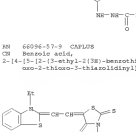
L20 ANSWER 64 OF 72 CAPLUS (Continued)



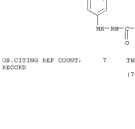
RN 66096-48-8 CAPLUS
CN Benzoic acid, 2-[4-[5-[3-ethyl-2(3H)-benzothiazolylidene)-4-oxo-2-thioxo-3-thiazolidinyl]phenyl]hydrazide (CA INDEX NAME)

IT 66096-55-7P 66096-57-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 66096-55-7 CAPLUS
CN Benzoic acid, 2-[4-[5-[2-[3-ethyl-2(3H)-benzoxazolylidene)ethylidene]-4-oxo-2-thioxo-3-thiazolidinyl]phenyl]hydrazide (CA INDEX NAME)

L20 ANSWER 64 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)

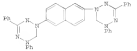


RN 66096-57-9 CAPLUS
CN Benzoic acid, 2-[4-[5-[2-[3-ethyl-2(3H)-benzothiazolylidene)ethylidene]-4-oxo-2-thioxo-3-thiazolidinyl]phenyl]hydrazide (CA INDEX NAME)

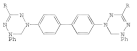


OS.CITING REF COUNT: 7 THERE ARE 7 CAPLUS RECORDS THAT CITE THIS RECORD (7 CITINGS)

ACCESSION NUMBER: 1977:501529 CAPLUS
DOCUMENT NUMBER: 87:101529
ORIGINAL REFERENCE NO.: 87:16113a,16114a
TITLE: Verdazyls. 25. N-3,N-1'-Linked bisverdazyls with phenylene and naphthylene bridges, thermochromism and magnetic properties
AUTHOR(S): Neugebauer, Franz Alfred; Bernhardt, Ralph; Fischer, Hans
CORPORATE SOURCE: Abt. Org. Chem., Max-Planck-Inst. Med. Forsch., Heidelberg, Fed. Rep. Ger.
SOURCE: Chemische Berichte (1977), 110(6), 2254-75
CODEN: CHBMAM; ISSN: 0009-2940
DOCUMENT TYPE: Journal
LANGUAGE: German
GI

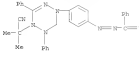


I

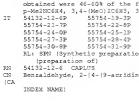


II

AB Magnetic properties, zero field parameters D, and thermochromic effects in the absorption spectra are discussed with respect to the structure of bisverdazyls [e.g. I and II (R = Ph, MeICl)] and the distortion around the bridge axis. In the above compds. the thermally populated triplet state is separated from the singlet ground state by 1500, 600, and 400 cal/mol, resp.
IT 63846-19-5P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 63846-19-5 CAPLUS
CN 1,2,4,5-Tetrazine-1(2H)-acetonitrile, 3,4-dihydro-a,4-dimethyl-2,6-diphenyl-3-[4-[2-[phenyl[2-phenylhydrazinylidene)methyl]diazenyl]phenyl]- (CA INDEX NAME)



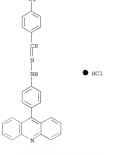
ACCESSION NUMBER: 1975:428973 CAPLUS
DOCUMENT NUMBER: 83:28073
ORIGINAL REFERENCE NO.: 83:4489a,4492a
TITLE: Reaction of acridinium salts with phenylhydrazones and phenylhydrazides
AUTHOR(S): Chupakhin, O. N.; Postovskii, I. Ya.; Kuzinov, V. L.; Charushin, V. N.
CORPORATE SOURCE: Ural. Politekh. Inst. im. Kirova, Sverdlovsk, USSR
SOURCE: Khimiya Geterosiklicheskikh Soedinenii (1975), (3), 387-91
CODEN: KGSSAQ; ISSN: 0132-6244
DOCUMENT TYPE: Journal
LANGUAGE: Russian
OTHER SOURCE(S): CASREACT 83:28073
GI For diagram(s), see printed CA Issue.
AB Acridinium salts [I, R = H, Me, R1 = Ph, p-ClC6H4, p-BrC6H4, 3,4-(MeO)2C6H3, X = Cl, I] were oxidized in 30-82% yields by heating RR1C:NNHPh with an acridinium salt in DMF 2 hr at 120°. Addnl. obtained were 46-60% of the free bases [II, R = H, Me, R1 = Ph, p-ClC6H4, p-MeNHC6H4, 3,4-(MeO)2C6H3, 3,4-(HO)(MeO)C6H3, 2-furyl].
IT 54132-12-6P 55754-19-3P 55754-20-4P
55754-21-7P 55754-22-8P 55754-23-9P
55754-24-0P 55754-25-1P 55754-26-2P
55754-27-3P 55754-28-4P 55754-29-5P
55754-30-8P 55754-31-9P 55754-36-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 54132-12-6 CAPLUS
CN Benzaldehyde, 2-[4-(9-acridinyl)phenyl]hydrazone, hydrochloride (1:1) (CA INDEX NAME)



● HCl

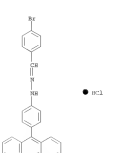
RN 55754-19-3 CAPLUS
CN Benzaldehyde, 4-chloro-, 2-[4-(9-acridinyl)phenyl]hydrazone, hydrochloride (1:1) (CA INDEX NAME)

OS.CITING REF COUNT: 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD
(3 CITINGS)



● HCl

RN 55754-20-4 CAPLUS
CN Benzaldehyde, 4-bromo-, 2-[4-(9-acridinyl)phenyl]hydrazone, hydrochloride (1:1) (CA INDEX NAME)



● HCl

RN 55754-21-7 CAPLUS
CN Acridinium, 10-methyl-9-[4-[2-(phenylmethylene)hydrazinyl]phenyl]-, iodide (1:1) (CA INDEX NAME)

● I⁻

RN 55754-22-8 CAPLUS
CN Acridinium, 9-[4-[2-[(4-chlorophenyl)methylene]hydrazinyl]phenyl]-10-methyl-, iodide (1:1) (CA INDEX NAME)

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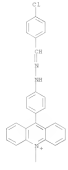
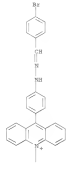


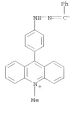
PAGE 1-A



PAGE 2-A

● I⁻

RN 55754-23-9 CAPLUS
CN Acridinium, 10-methyl-9-[4-[2-(1-phenylethylidene)hydrazinyl]phenyl]-, iodide (1:1) (CA INDEX NAME)



● I⁻

RN 55754-24-0 CAPLUS
CN Acridinium, 9-[4-[2-[(4-bromophenyl)methylene]hydrazinyl]phenyl]-10-methyl-, iodide (1:1) (CA INDEX NAME)

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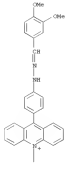
● I⁻

RN 55754-25-1 CAPLUS
CN Acridinium, 9-[4-[2-[(3,4-dimethoxyphenyl)methylene]hydrazinyl]phenyl]-10-methyl-, iodide (1:1) (CA INDEX NAME)

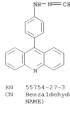
PAGE 1-A



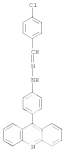
PAGE 2-A

● I⁻

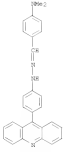
RN 55754-26-2 CAPLUS
CN Benzaldehyde, 2-[4-(9-acridinyl)phenyl]hydrazone (CA INDEX NAME)



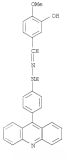
RN 55754-27-3 CAPLUS
CN Benzaldehyde, 4-chloro-, 2-[4-(9-acridinyl)phenyl]hydrazone (CA INDEX NAME)



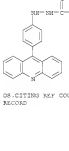
RN 55754-28-4 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, 2-[4-(9-acridinyl)phenyl]hydrazone (CA INDEX NAME)

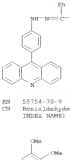


RN 55754-29-5 CAPLUS
CN Ethanone, 1-phenyl-, 2-[4-(9-acridinyl)phenyl]hydrazone (CA INDEX NAME)

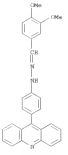


RN 55754-36-4 CAPLUS
CN Benzoic acid, 2-[4-(9-acridinyl)phenyl]hydrazide (CA INDEX NAME)



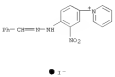


RN 55754-30-8 CAPLUS
CN Benzaldehyde, 3,4-dimethoxy-, 2-[4-(9-acridinyl)phenyl]hydrazone (CA INDEX NAME)



RN 55754-31-9 CAPLUS
CN Benzaldehyde, 3-hydroxy-4-methoxy-, 2-[4-(9-acridinyl)phenyl]hydrazone (CA INDEX NAME)

ACCESSION NUMBER: 1972:449149 CAPLUS
DOCUMENT NUMBER: 77:49149
ORIGINAL REFERENCE NO.: 77:7975a,7978a
TITLE: N-Phenylpyridinium salts. 2. Reactivity of N-(3-nitro-4-chlorophenyl)pyridinium chloride
AUTHOR(S): Lipke, Roddy; Lachmann, Christel; Schmidt, Reinhard
CORPORATE SOURCE: Sekt. Chem., Humboldt-Univ. Berlin, Berlin, Ger. Dem. Rep.
SOURCE: Zeitschrift fuer Chemie (1972), 12(3), 103-4
CODEN: ZECHAL; ISSN: 0044-2402
DOCUMENT TYPE: Journal
LANGUAGE: German
GI For diagram(s), see printed CA Issue.
AB The title compound (I) reacted with NOH.HCl in boiling EtOH to give the hydrazino compound II only in small yields and as the benzylidene derivative III. III was obtained in increased yields by reaction of I with PhCH:NNH2. I and PhNHNH2 gave the trianolyl derivative IV. I and H2NNHCSNH2 or PhSH gave the corresponding thio ethers, which were cleaved with pyrrolidine to give 3,4-O2N(PhS)C6H3NHNH2 and 3,4-O2N(2-HOCC6H4S)C6-H3NH2, resp. Similar cleavage of IV gave the expected 5-amino derivative V.
IT 37059-25-9P
Rl: RPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 37059-25-9 CAPLUS
CN Pyridinium, 1-[3-nitro-4-[2-(phenylmethylene)hydrazinyl]phenyl]-, iodide (1:1) (CA INDEX NAME)



L20 ANSWER 68 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 1971:422479 CAPLUS
DOCUMENT NUMBER: 75:22479
ORIGINAL REFERENCE NO.: 75:3569a,3572a
TITLE: Benzofuran derivatives as fluorescent whitening agents
INVENTOR(S): Kabas, Guglielmo; Schlaepfer, Hans
PATENT ASSIGNEE(S): Geigy, J. R., A.-G.
SOURCE: Ger. Offen., 64 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
DE 2031819	A	19710311	DE 1970-2031819		19700626
CH 986269	D	19701231	CH 1969-986269		19690627
CH 512623	A	19710915	CH 1969-512623		19690627
US 3658833	A	19720425	US 1970-46450		19700615
NL 7009484	A	19701229	NL 1970-9484		19700626
FR 2051383	A5	19710402	FR 1970-23787		19700626
GB 1315536	A	19730502	GB 1970-31164		19700626
CA 939358	A1	19740101	CA 1970-86592		19700626
PRIORITY APPLN. INFO.:			CH 1969-9862	A	19690627

GI For diagram(s), see printed CA Issue.

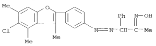
AB Fluorescent whitening agents (I) for high mol. weight organic materials were prepared by diazotizing aminophenyl-substituted benzofuran derivs., coupling the diazonium compound with Me benzyl or Ph Et ketone, converting the azo compound to an oxime hydrazone, effecting ring closure, and then reducing the product. The diazonium salt prepared from 28.6 g 2-(4-aminophenyl)-3,4,6-trimethyl-5-chlorobenzofuran was coupled with 14.8 g PhCH2COMe in 200 ml pyridine and the azo compound obtained was suspended in 600 ml EtOH, and converted by treatment with 7.7 g HONH2.HCl in 10 ml H2O and 7.4 g NaOAc.3H2O in 10 ml H2O to an oxime hydrazone. A solution of 44.6 g of the oxime hydrazone in 400 ml pyridine was treated with 75 g CuSO4.5H2O in 60 ml H2O, and 8.9 g of the v-triazole 1-oxide obtained was reduced in 200 ml chlorobenzene with 4 g Zn powder and 7 ml AcOH to give

1-(3,4,6-trimethyl-5-chloro-2-benzofuryl)-4-(4-methyl-5-phenyl-v-triazol-2-yl)benzene (I), R = R1 = R3 = Me, R2 = Cl, R4 = H). Similarly prepared were 11 addnl. I, in which R = H, Me, or Ph; R1 = H; R2 = H, Cl, Me, or OMe; R3 = H or OMe; and R4 = H or Cl. Coupling diazotized aminophenylbenzofurans with the appropriate aniline or naphthylamine, followed by triazolization with CuSO4, gave II (R = Me, OMe) and 28 III (R = H, Me, Ph; R1 = H, Me; R2 = H, Cl, Me, Ph, tert-Bu, OMe, CO2Me, SO2NEt2; R3 = H, Me, OMe; R4 = H, Cl; R5 = H, SO3Na, SO2NEt2).

IT 32437-57-3P
RL: IMF (Industrial manufacture); PREP (Preparation)
(preparation of)

L20 ANSWER 68 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)

RN 32437-57-3 CAPLUS
CN 2-Propanone, 1-[2-[4-(5-chloro-3,4,6-trimethyl-2-benzofuranyl)phenyl]diazenyl]-1-phenyl-, oxime (CA INDEX NAME)



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L20 ANSWER 69 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 1962:79383 CAPLUS
DOCUMENT NUMBER: 56:79383
ORIGINAL REFERENCE NO.: 56:15486i,15487a-i,15488a-b
TITLE: 5-Cyanomethylene-2-oxo-3-pyrrolines
INVENTOR(S): Carboni, Rudolph A.
PATENT ASSIGNEE(S): E. I. du Pont de Nemours & Co.
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3013013		19611212	US 1959-808587	19590424
PRIORITY APPLN. INFO.:			US	19590424

GI For diagram(s), see printed CA Issue.

AB A series of new 5-cyanomethylene-2-oxo-3-pyrroline dyes (I) was prepared (R in I = H or an alkyl group, X and X' = CN, SO3R, CO2R, or CONR2, and Q = a monovalent organic radical of a compound which will condense with a diazonium salt). (NC)2C:C(NH2)CH2CN (II) 132, (CO2Et)2 160, and absolute MeOH 793 added to NaOMe 108 in absolute MeOH 595, stirred 2 hrs. at room temperature, concentrated to 2/3 volume, diluted with 2 vols. dry C6H6, and filtered yielded the di-Na salt (III) 203 parts of 4-cyano-5-dicyanomethylene-3-hydroxy-2-oxo-3-pyrroline (IV). The III in the min. amount of H2O treated with excess HCl and filtered yielded the mono-Na salt dihydrate (V.2H2O) of IV, bright yellow precipitate p-MeC6H4SO2CH2CN (VI) 390 added at 0° to Na 23 in EtOH 3947, refluxed 2.5 hrs., kept at room temperature overnight, diluted with H2O 20,000 acidified with concentrated HCl, and filtered yielded 2-amino-1-cyano-1,3-bis(p-tolylsulfonyl)propene (VII) 245 parts, m. 194.5-5.5° (EtOH). VI 700 and (CO2Et)2 263 refluxed 1.25 hrs. with Na 83 in EtOH 3947, diluted with C6H6 8794, filtered, the residual bright yellow, crystalline di-Na salt 540 of 5-[α-cyano-α-(p-tolylsulfonyl)methylene] - 3 - hydroxy-2-oxo-4-(p-tolylsulfonyl)-3-pyrroline (VIII) suspended in H2O 5000, and treated slowly with stirring with concentrated HCl 357 yielded the pale yellow, crystalline mono-Na salt (IX) of VIII. V.2H2O 10, Et2NPh 191, and POCl3 about 25 heated a few min. at 80-100° gave blue-green 4-cyano-5-dicyanomethylene-3-(p-dimethylaminophenyl)-2-oxo-3-pyrroline (X). X 2 in HCONMe2 284 added with stirring to sulfonated lignin dispersant 2 in H2O 10,000 and 5% aqueous NaHCO3 200, heated at 80-100°, and swatches 10 parts each of cellulose acetate and nylon fabrics added gave a red-blue shade on the cellulose acetate and a medium brown shade on nylon; both dyed fabrics turned bright blue when treated with 5% aqueous HCl and retained the color after rinsing and drying. V.2H2O 50 in MeCN 157 treated with (COCl)2 60, refluxed 1 hr. with stirring, and filtered yielded 3-chloro-4-cyano-5-dicyanomethylene-2-oxo-3-pyrroline (XI) 36 parts, buff-colored crystals. XI 15 in EtOAc 2250 treated with

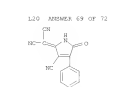
L20 ANSWER 69 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)

Me2NPh 48 kept 2 hrs. at room temp., and filtered yielded X 20 parts. XI 15 in EtOAc 450 treated with (p-Me2NC6H4)2C:CH2 20 in EtOAc 900, kept 1.5 hrs. at room temp., and filtered yielded 3-[(p-Me2NC6H4)2C: CH] analog 28 parts of X, λ 759 mμ (EtOH). Similarly were prepd. the 3-(PhNHCOCHBz) analog of X, λ 500 mμ (EtOH), orange in ETOH, from XI and BzCH2CPNHPh, and the 3-(3-methyl-1-phenyl-5-pyrazolon-4-yl) analog of X, λ 568 mμ, purple in ETOH, from XI and 3-methyl-1-phenyl-5-pyrazolone. XI 204 in EtOAc 1800 treated with NaCH(CN)2 yielded the Na salt 168 parts of the 3-[(NC)2CH] analog of X, brick-red solid, orange in H2O. XI 102, α-methylfuran 184, and HCONMe2 945 kept 18 hrs. at room temp., dild. with H2O 2500, and filtered gave the 3-(5-methyl-2-furyl) analog of X, orange, m. above 250°, bright yellow in EtOH and MeCN. XI 10 in EtOAc 1800 and indole 5 parts warmed a few min. at 50-60° yielded the bright red 3-(3-indolyl) analog of X, λ 525 and 370 mμ. XI 10 in MeCN 1566 with 2-methylene-1,3,3-trimethylindoline (XII) yielded similarly at 50-60° the purple 3-(1,3,3-trimethyl-2-indolinylidene) analog of X, λ 591 and 360 mμ. XI 408 and PhNHN:CHPh 392 in MeCN 10,000 stirred a few min. at room temp. gave crude 3-(p-PhCH:NNHC6H4) analog of X, green in AcOH, λ 605, 580, 455, and 346 mμ (AcOH). [EtPhN(CH2)2NMe3]Cl 480 and XI 408 in MeCN 10,000 at room temp. gave 2-[N-ethyl-N-[p-(4-cyano-5-dicyanomethylene-2-oxo-3-pyrrolin-3-yl)phenyl]amino]ethyltrimethylammonium chloride, λ 586 and 395 mμ, dyed polyethylene terephthalate fibers lavender-blue. EtO2C(NC)C:C(NH2)CH2CO2Et 184 added at 0° to Na 52 in abs. EtOH 553, kept 3 hrs. at room temp., poured into C6H6 2640, filtered, and evapd. gave the di-Na salt 340 parts of 5-(α-cyano-α-ethoxycarbonylmethylene)-4-ethoxycarbonyl-3-hydroxy-2-oxo-3-pyrroline (XIII); a portion 170 treated with POCl3 200 in MeCN 391 at 0°, kept at room temp. overnight, and filtered gave the 3-Cl analog (XIV) of XIII. XIV 5 in MeCN 780 treated with XII 5 yielded the reddish blue 3-(1,3,3-trimethyl-2-indolinylidene) analog of XIV, λ 582, 550, and 360 mμ. II 132 and BzCO2Et 178 added to Na 46 in EtOH 3947, poured after 1 hr. into H2O 20,000, and acidified with aq. HCl yielded bright yellow 4-cyano-5-dicyanomethylene-2-oxo-3-phenyl-3-pyrroline (XV) 90 parts, m. 296-8° (AcOH)(decompn.). Na salt 155 of II and MeNHCOCO2Me 117 in MeCN 1957 parts refluxed 16 hrs. with stirring, filtered, evapd., and the residue treated in the usual manner with POCl3 and Me2NPh gave the 3-(p-Me2NC6H4) analog of XV, a bright blue dye. IX 410 in MeCN 1957 treated slowly with stirring with (COCl)2 298, kept 1 hr. at room temp., filtered, and evapd. yielded the cryst. 3-chloro-5-[α-cyano-α-(p-toluylsulfonyl)methylene]-2-oxo-4-(p-tolylsulfonyl)-3-pyrroline (XVI) 161 parts. XVI 50 in EtOAc 900 treated with Me2NPh about 50, kept 4 hrs. at room temp., and filtered yielded the 3-(p-Me2NC6H4) analog of XVI, iridescent green-gold needles. XVI 5 in MeCN about 50 contg. a trace of C5H5N treated with CH2(CN)2 about 5 parts yielded the 3-(NC)2CH analog of XVI, λ 505 and 480 mμ

IT 94864-30-9P, Benzaldehyde, [p-[4-cyano-5-(dicyanomethylene)-2-oxo-3-pyrrolin-3-yl]phenyl]hydrazone
856598-94-2P, 3-Pyrroline-Δ2,α-malononitrile, 4-[p-(benzylidenehydrazino)phenyl]-3-cyano-5-oxo-
RL: PREP (Preparation)
(preparation of)

RN 94864-30-9 CAPLUS
CN Propanedinitrile, 2-[3-cyano-1,5-dihydro-5-oxo-4-[4-[2-(phenylmethylene)hydrazinyl]phenyl]-2H-pyrrol-2-ylidene]- (CA INDEX NAME)

L20 ANSWER 69 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)

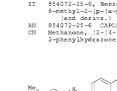


RN 856598-94-2 CAPLUS
CN Propanedinitrile, 2-[3-cyano-5-oxo-4-[4-[2-[phenylmethylene)hydrazinyl]phenyl]-2-pyrrolidinylidene]- (CA INDEX NAME)

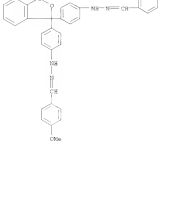
OS.CITING REF COUNT: 19 THERE ARE 19 CAPLUS RECORDS THAT CITE THIS RECORD (19 CITINGS)

L20 ANSWER 70 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1954:52839 CAPLUS
DOCUMENT NUMBER: 48:52839
ORIGINAL REFERENCE NO.: 48:9336i,9337a-i
TITLE: Formazyl derivatives. III. New carbo- and heterocyclic
mono- and diformazans
AUTHOR(S): Kuhn, R.; Eick, Heinrich; Oertel, Georg
CORPORATE SOURCE: Univ. Frankfort, Germany
SOURCE: Justus Liebigs Annalen der Chemie (1953), 581, 29-44
CODEN: JLACHY; ISSN: 0075-4617
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
AB The following monoformazans, R''NHN:CRN:NR '' (I) were formed by techniques
quite similar to those described in the preceding abstra. and from these were obtained the corresponding tetrazolium acetates (II) (R,R', and R '' are given in parentheses, in the order named): Ic (2-thienyl, Ph, m-H3CC6H4), wine-colored, m. 128°; IIc, C20H18N4O2S, pale yellow, m. 223°; Id (Ph, 2-pyridyl, p-ClC6H4), reddish black, m. 150°, IId, yellow powder, m. 115°; Ie (o-HOC6H4, 2-pyridyl, p-ClC6H4) reddish brown, m. 194°, IIe, C20H14ClO3N5Cl, yellow, m. 240°; If (o-C2H5OC6H4, 2-pyridyl, p-ClC6H4) black, m. 146°, IIf, C22H19ClO4N6Cl, pale yellow, m. 181°; Ig (o-ClC6H4, 2-pyridyl, p-ClC6H4), dark red, m. 190°, IIg, C20H11Cl2O5N5Cl2 m. 184°; Ih (p-MeOC6H4, 2-pyridyl, p-ClC6H4), reddish brown, m. 145°, IIh, m. 165°. In the following compds. of type I and II, R'' = 2-quinolyl, and R'' = p-ClC6H4, hence only R is given parenthetically: Ij (Ph), dark red with green lustre, m. 176°; IIj, yellow, m. 204°; Ik (o-HOC6H4), dark red, m. 170°; IIk, yellow, m. 213°; Il (o-C2H5OC6H4), red leaflets with green luster, m. 188°; III, yellow, m. 202°; Im (o-ClC6H4, orange-red m. 156°); IIm, yellowish, m. 220°; In (p-MeOC6H4), very dark red with green luster, m. 172°; IIn, yellow, m. 215°. In the following, R = R' = Ph, and only R'' is given, and the corresponding tetrazolium picrates (formed from the appropriate chlorides) are indicated as IIIo (4-quinolyl), very dark green, m. 174°; IIIl, C32H19N9.C6H3N3O7, canary-yellow, m. 133.5°; Im (7-quinolyl), dark red, m. 168°; IIIm, yellow, m. 190-2°; In (2-quinolylmethyl), dark red, m. 213°; Io (6-ethoxy-2-quinolyl), dark brown, m. 145-6°; Ip (8-ethoxolyl), black glistening needles, m. 158-9°; Iq [p-(6-methyl-2-benzothiazolyl)phenyl], C37H23N5S, deep purple, m. 193°; IIIq, yellow, m. 200-2°. In the following R'' = p-ClC6H4, and only R and R', resp., are named: Ir (2-furyl, 2-pyridyl), red, m. 114°; Is (2-pyridyl, 2-pyridyl), reddish brown, m. 148°; It, C19H13N6O2Cl2, colorless, m. 144-6°; Iu (2-furyl, 2-quinolyl) dark red, m. 108°; IIt, pale yellow, m. 205°; Iv (2-pyridyl, 2-quinolyl), red, m. 80°; IIv, colorless, m. 223°; Iw (4-pyridyl, 2-quinolyl), red, m. 208°; IIw, pale yellow, m. 90°. In the following R' = 2-quinolyl and R'' = 6-quinolyl: Iw (2-pyridyl), red, m. 193°; IIw, pale yellow, m. 204°; Ix (4-pyridyl), red, m. 221°; IIx C26H18N8O2, yellow, m. 94-6°. Diformazans (IV) (R'NHN:CRN:NR:CR''), in which R' = Ph, the bivalent R''' = 2,2'-dimethoxy-4,4'-biphenylene, and in which only R is given, were prepared, together with the corresponding bis(tetrazolium acetates) (V), from the phenylhydrazones of appropriate aldehydes and dialsotized o-dianisidine at 0°. IVa (2-furyl), C36H30O4N8, black with yellow luster, m. 223°; V, pale yellow, m. 168-70°; IVb (2-pyridyl), green needles, m. 216°; Vb,

L20 ANSWER 70 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)
colorless m. 239°; IVc (4-pyridyl), lustrous green, m. 270-4°; Vc, pale yellow, m. 253-205°; IVd (5-thienyl), black with golden luster, m. 230°; Vd, pale yellow, m. 240°; IVe (5-thiazolethenyl), C44H34N8O2S2, black with golden luster, m. 248°; Ve, colorless, m. 212°; IVf (2-benzothiazolyl), black, m. 226°. In IVg, R,R', and R''' were resp. 2-thienyl, Ph, and biphenylene, C54H36N8S2 (misnamed in the exptl. part, but not in the introduction), black needles with golden luster, m. 233°. In the following R' = 2-pyridyl and R''' = 2,2'-dimethoxy-4,4'-biphenylene); IVh (R = Ph), black with green luster, m. 218°; Vh, yellow, m. 223°; IVi (R = o-ClNC6H4), black, m. 205°; Vi, pale yellow, m. 204°; IVj (R = o-ClC6H4), dark red leaflets, m. 187°; Vj, yellow, m. 213°; IVk (R = 2-furyl), black with yellow luster, m. 205°; Vk (R = 2-pyridyl), dark green, m. 214°; Vl, pale yellow, m. 223°; IVm (R = 4-pyridyl), black with green luster, m. 217°; Vm, pale yellow, m. 173°; IVn (R = 2-thiazolethenyl), black with violet sheen, m. 241°; Vn, yellowish, m. 194-8°. In the following compds., R' = 2-quinolyl and R''' = 2,2'-dimethoxy-4,4'-biphenylene, IVo (R = Ph) black, m. 183°; Vo, pale yellow, m. 223°; IVp (R = o-ClNC6H4), black with golden sheen, m. 203°; Vp, pale yellow, m. 174°; IVq (R = o-ClC6H4), black with green shimmer, m. 181°; Vq, pale yellow, m. 182°; IVr (R = 2-furyl), dark brown, m. 222°. Most of the formazans are sol. in CHCl3 and pyridine (VI), giving highly colored solns., and crystallize from aq. solns. of VI. Most
tetrazolium salts are sol. in MeOH and H2O, and can be crystd. from MeOH-Et2O.
IT 854072-25-6, Benzothiazole, 6-methyl-2-[p-(4-phenylhydrazonobenzylazo)phenyl]- (and derivs.)
RN 854072-25-6 CAPLUS
CN Methanone, 72-(4-(6-methyl-2-benzothiazolyl)phenyl]diazenyl]phenyl-, 2-phenylhydrazone (CA INDEX NAME)



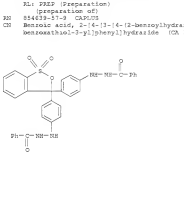
L20 ANSWER 71 OF 72 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1950:45425 CAPLUS
DOCUMENT NUMBER: 44:45425
ORIGINAL REFERENCE NO.: 44:8661d-i
TITLE: Triphenylmethane dyes containing the hydrazine group and their condensation products with aldehydes
AUTHOR(S): Kuhn, Lester P.; DeAngelis, Louis
CORPORATE SOURCE: Ballistic Research Lab., Aberdeen, MD, USA
SOURCE: Journal of the American Chemical Society (1949), 71, 3084-8
CODEN: JACSAT; ISSN: 0002-7863
DOCUMENT TYPE: Journal
LANGUAGE: English
GI For diagram(s), see printed CA Issue.
AB Three hydrazinotriphenylmethanes were prepared and tested with aldehydes
to yield the corresponding hydrazones. An explanation is provided for the
color change accompanying this reaction which corrects misconceptions of previous workers. The absorption of these compds. in the visible region was measured. The usefulness of these dyes as reagents for the qual. determination of aldehydes is demonstrated and the possibility of using them for
quant. detns. is indicated. The relation between the color and the constitution of the compds. is discussed and the principles set forth by previous workers on other dyes have been extended (Brooker, C.A. 37, 1653.7; Talbert, et al., C.A. 39, 3481.8; 40, 3284.6). The dyes are of the form: Dyes I and II were prepared by the hydrolysis of the corresponding
benzhydrazones. Absorption spectra of I, II, and III are given. They were not isolated but were used in the form in which they were prepared III was prepared in the same manner except that the benzotrichloride was replaced by the pseudo dichloride of o-sulfobenzoic acid. FHCl3 + 2PhCH = NNHPh -2HCl2 [(PhCH:NNHC6H4)2CPh]+ Cl- - 2HCl, [(PhCH:NNHC6H4)2CPh]+ Cl- + 2H2O -2H3N + [(H2NHC6H4)2CPh]+Cl-.
IT 855950-04-8, p-Anisaldehyde, dihydrazone with a,a-bis[p-hydrazinophenyl]-a-hydroxy-o-toluenesulfonic acid sultone
RL: PREP (Preparation)
(preparation of)
RN 855950-04-8 CAPLUS
CN Benzaldehyde, 6-methoxy-, 2-[4-[3-[4-[2-[(4-methoxyphenyl)methylene]hydrazinyl]phenyl]-1,1-dioxido-3H-2,1-benzoxathiol-3-yl]phenyl]hydrazone (CA INDEX NAME)



ACCESSION NUMBER: 1937:44735 CAPLUS
DOCUMENT NUMBER: 31:44735
ORIGINAL REFERENCE NO.: 31:6222h-i,6223a-g
TITLE: Molecular resonance systems. II. The preparation and properties of substituted anilinesulfonephthaleins
AUTHOR(S): Schwarzenbach, G.; Ott, G. H.; Hagger, O.
SOURCE: Helvetica Chimica Acta (1937), 20, 498-513
CODEN: HCACAV; ISSN: 0018-019X
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable

AB A large number of substituted anilinesulfonephthaleins of the type o-SO2C6H4C[p-C6H4NHR-]2 (A) have been prepared, and their color changes are discussed. Phenyl red (I) was prepared from saccharin (cf. Fraas and Provine, C. A. 22, 7166). The phenolic OH groups of I were replaced by heating 39 g. dry I with 300 g. anhyd. ZnCl2 for 1 hr. at 180°, the substituted A being obtained in 80-90% yield. The following were prepared in this way: anilinesulfonephthalein N-Ph (cf. Orndorf and Therwood, C. A. 17, 1417); N-(o-methylphenyl), from o-MeC6H4NH2; N-(o,p-dimethylphenyl), from 2,4-Me2C6H3NH2, N-(o,p,m'-trimethylphenyl) from 2,4,5-Me3C6H2NH2; N-(p-methoxyphenyl) from p-MeOC6H4NH2; and N-(p-ethoxyphenyl) from p-EtOC6H4NH2. The phenolic OH groups of I were also replaced by NH2 and aliphatic amines by heating in a sealed tube. 1 g. I was heated with 5 cc. aqueous NH2 (saturated at 0°) for 24 hrs. at 150°, giving 0.5 g. anilinesulfonephthalein (II). 1 g. I was heated with anhydrous MeNH2 and EtNH2 for 24 hrs. at 140°, giving 0.7 g. N-methyl- and N-ethylanilinesulfonephthalein, resp. 35 g. I in 200 cc. AcCl was heated under reflux for 1 hr. with 42 g. PCl5, in an attempt to replace with Cl the phenolic OH groups of I. The bright yellow amorphous powder so obtained proved to be an impure phosphoric acid ester (III), instead of the expected Cl compound. III was reacted with several aliphatic and aromatic amines to give oxamps. of the type A. A mol. weight of 400 was ascribed to III. 1 mol. III in 10 parts of absolute alc. was heated with 5 mols. of the amine in a sealed tube for 12 hrs. in a boiling water bath. Yields of 40-70% were obtained. The following anilinesulfonephthaleins were prepared in this way: N-propyl, from PrNH2; N-isobutyl, from Iso-BuNH2; N-hydroxyethyl, from HOCH2CH2NH2; N-benzyl, from PhCH2NH2; N-(p-hydroxyphenyl), from p-HOC6H4NH2; N-(m-hydroxyphenyl), from m-HOC6H4NH2; N-(p-aminophenyl), from p-C6H4(NH2)2; and N-(o-bromophenyl), from o-BrC6H4-NH2. The diacetylphenyl red (IV) described by Orndorf also reacts readily with amines. The following 3 anilinesulfonephthaleins were prepared from IV, using the same procedure as employed with III: N-(o,p-dichlorophenyl), from 2,4-Cl2C6H3NH2; N-(m-acetylphenyl), from m-AcC6H4NH2; N-(biphenylyl), from PhC6H4NH2; and N'-benzoylphenylhydrazinesulfonephthalein, from BzNHNH2. Et2NCH2CH2NH2 (V) was prepared through the phthalimide synthesis. I was heated at 100° with a large excess of V, yielding 40% N-(N'-diethylaminoethyl) anilinesulfonephthalein. 4 g. I, heated 3 hr. at 98° in a sealed tube with 16 cc. anhydrous Me2NNH2, the excess amine removed at room temperature in vacuo, the residue dissolved in alc. and a little AcOH added gives 0.7 g. N'-dimethylphenylhydrazinesulfonephthalein. 4 g. I was heated 10 hrs. at 100° with 8 g. H2SO2CH2NH2, the reaction mixture dissolved in alc. and the dye ppted. with ether. Purification was effected by dissolving in alc. and ppty. with ether 2 times, but the N-(sulfethoxyethyl) anilinesulfonephthalein (VI) could not be obtained cryst. VI was hydrolyzed to the free acid, N-(carboxymethyl) anilinesulfonephthalein, by heating 3 hrs. on the water bath with nonnd. HCl. II was acetylated with Ac2O and a few drops C5H5N. The tetra-Ac deriv. of II was obtained by neutralizing in AcOH. Attempts to sulfonate diphenylanilinesulfonephthalein and its p-OMe deriv. yielded mists. Attempts to condense I with H2NNH2 or PhNHNH2 failed, because of the reducing properties of these reagents. (ClCH2CO)2 and ClCl-(CH2NH)2, condensed with I, yield mists, in which several mols. of I are linked together. All these compds., except II, are slightly sol. in H2O, but readily sol. in alc., all have indicator properties.

IT 854639-57-9, o-Toluenesulfonic acid, a,a-bis[p-(2-benzoylhydrazinophenyl]-m-hydroxy-, sultone
RL: PREP (Preparation)
(preparation of)
RN 854639-57-9 CAPLUS
CN Benzoic acid, 2-[4-[3-[4-(2-benzoylhydrazinyl)phenyl]-1,1-dioxido-3H-2,1-benzoxathiol-3-yl]phenyl]hydrazide (CA INDEX NAME)



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CA SUBSCRIBER PRICE                                     0.00     -95.70

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     FILE 'REGISTRY' ENTERED AT 11:13:36 ON 26 JUL 2011
L1                STRUCTURE UPLOADED
L2             5 S L1

     FILE 'REGISTRY' ENTERED AT 11:23:07 ON 26 JUL 2011
L3                STRUCTURE UPLOADED
L4             5 S L3
L5            84 S L3 FULL
L6            83 S L5 AND CAPLUS/LC
L7             1 S L5 NOT L6

     FILE 'CAPLUS' ENTERED AT 11:23:57 ON 26 JUL 2011
L8             3 S L6

     FILE 'REGISTRY' ENTERED AT 11:28:33 ON 26 JUL 2011
L9                STRUCTURE UPLOADED
L10           10 S L9
L11          165 S L9 FULL
L12          146 S L11 AND CAPLUS/LC
L13           19 S L11 NOT L12

     FILE 'CAPLUS' ENTERED AT 11:29:44 ON 26 JUL 2011
L14            35 S L12

     FILE 'STNGUIDE' ENTERED AT 11:32:44 ON 26 JUL 2011
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2  3  4  5  6  7
chain bonds :
1-2  5-8  8-9  9-10  10-11  10-12
ring bonds :
2-3  2-7  3-4  4-5  5-6  6-7
exact/norm bonds :
1-2  2-3  2-7  3-4  4-5  5-6  5-8  6-7  8-9  9-10  10-11  10-12


Match level :
1:Atom  2:Atom  3:Atom  4:Atom  5:Atom  6:Atom  7:Atom  8:CLASS  9:CLASS  10:CLASS
11:Atom  12:CLASS



L21     STRUCTURE UPLOADED

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L21 HAS NO ANSWERS
L21              STR
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L23          8 L22

=> fil reg
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FULL ESTIMATED COST                                     0.52    1416.88

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
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CA SUBSCRIBER PRICE                                     0.00     -95.70

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DICTIONARY FILE UPDATES:  25 JUL 2011  HIGHEST RN 1313702-17-8

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=> d 126 1-24
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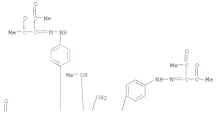
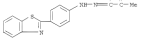
L26 ANSWER 1 OF 24 REGISTRY COPYRIGHT 2011 ACS on STN
RN 1246091-87-4 REGISTRY
ED Entered STN: 12 Oct 2010
CN Cadmium, bis[m-[4-[2-[1-acetyl-2-oxopropylidene)hydrazinyl]benzoato-
κO1:κO,κO']bis[m3-[4-[2-[1-acetyl-2-
oxopropylidene]hydrazinyl]benzoato-
κO1:κO,κO':κO']]tetrakis[4-[2-[1-acetyl-2-
oxopropylidene]hydrazinyl]benzoato-
κO,κO']tetrasupaxis(methanol)tetra-, stereoisomer (CA INDEX
NAME)
MF C98 H104 Cd4 N16 O38
CI COM, COM
SR CA

PAGE 1-A



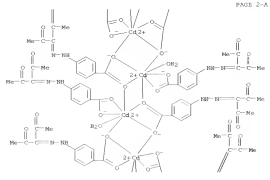
L26 ANSWER 2 OF 24 REGISTRY COPYRIGHT 2011 ACS on STN
RN 1135244-89-1 REGISTRY
ED Entered STN: 16 Apr 2009
CN 2,3,4-Pentanetrione, 3-[2-[4-(2-benzothiazolyl)phenyl]hydrazone] (CA
INDEX NAME)
MF C18 H13 N3 O2 S
SR Other Sources
Database: Developmental Therapeutics Program (National Cancer
Institute)



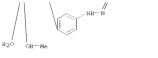
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L26 ANSWER 3 OF 24 REGISTRY COPYRIGHT 2011 ACS on STN (Continued)

PAGE 2-A

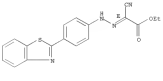


PAGE 3-A



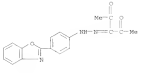
L26 ANSWER 3 OF 24 REGISTRY COPYRIGHT 2011 ACS on STN
RN 1135244-85-7 REGISTRY
ED Entered STN: 16 Apr 2009
CN Acetic acid, 2-[2-[4-(2-benzothiazolyl)phenyl]hydrazinylidene]-2-cyano-,
ethyl ester, [2E]- (CA INDEX NAME)
FS STEREOSEARCH
MF C18 H14 N4 O2 S
SR Other Sources
Database: Developmental Therapeutics Program (National Cancer
Institute)

Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

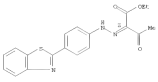
L26 ANSWER 4 OF 24 REGISTRY COPYRIGHT 2011 ACS on STN
RN 1135226-11-7 REGISTRY
ED Entered STN: 16 Apr 2009
CN 2,3,4-Pentanetrione, 2-[2-[4-[2-benzoxazolyl]phenyl]hydrazone] (CA INDEX NAME)
MF C18 H11 N3 O3
SR Other Sources
Database: Developmental Therapeutics Program (National Cancer Institute)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

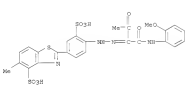
L26 ANSWER 5 OF 24 REGISTRY COPYRIGHT 2011 ACS on STN
RN 1135226-04-8 REGISTRY
ED Entered STN: 16 Apr 2009
CN Butanoic acid, 2-[2-[4-[2-benzothiazolyl]phenyl]hydrazinylidene]-3-oxo-, ethyl ester, (2E)- (CA INDEX NAME)
FS STEREOSEARCH
MF C19 H17 N3 O3 S
SR Other Sources
Database: Developmental Therapeutics Program (National Cancer Institute)

Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

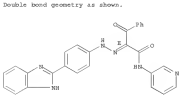
L26 ANSWER 6 OF 24 REGISTRY COPYRIGHT 2011 ACS on STN
RN 1025276-66-7 REGISTRY
ED Entered STN: 04 Jun 2009
CN 4-Benzothiazolesulfonic acid, 2-[4-[2-[1-[[2-methoxyphenyl]amino]carbonyl]-2-oxopropylidene]hydrazinyl]-3-sulfophenyl]-5-methyl- (CA INDEX NAME)
MF C25 H22 N4 O9 S2
SR Other Sources
Database: ChemDB (University of California Irvine)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

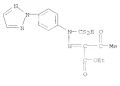
L26 ANSWER 7 OF 24 REGISTRY COPYRIGHT 2011 ACS on STN
RN 956195-26-9 REGISTRY
ED Entered STN: 28 Nov 2007
CN Benzenepropanamide, a-[2-[4-(1H-benzimidazol-2-yl)phenyl]hydrazinylidene]-b-oxo-N-3-pyridinyl-, (aE)- (CA INDEX NAME)
FS STEREOSEARCH
MF C27 H20 N6 O2
SR Other Sources
Database: Ambinter SARL

Double bond geometry as shown.



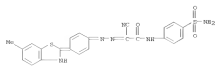
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L26 ANSWER 8 OF 24 REGISTRY COPYRIGHT 2011 ACS on STN
RN 947469-29-4 REGISTRY
ED Entered STN: 18 Sep 2007
CN Butanoic acid, 2-[2-(diethoxyarbuxy)-2-[4-(2H-1,2,3-triazol-2-yl)phenyl]hydrazinylidene]-3-oxo-, 1-ethyl ester (CA INDEX NAME)
MF C15 H15 N5 O3 S2
CI COM
SR CA



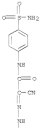
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L26 ANSWER 9 OF 24 REGISTRY COPYRIGHT 2011 ACS on STN
RN 867416-85-7 REGISTRY
ED Entered STN: 19 Sep 2005
CN Acetamide, N-[4-(aminosulfonyl)phenyl]-2-cyano-2-[2-[4-(6-methyl-2(3H)-benzothiazolylidene)-2,5-cyclohexadien-1-ylidene]hydrazinylidene]- (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Acetamide, N-[4-(aminosulfonyl)phenyl]-2-cyano-2-[[4-(6-methyl-2(3H)-benzothiazolylidene)-2,5-cyclohexadien-1-ylidene]hydrazono]- (9CI)
MF C23 H18 N6 O3 S2
SR Chemical Library
Supplier: Enamine
LC STN Files: CHEMCATS



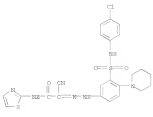
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L26 ANSWER 10 OF 24 REGISTRY COPYRIGHT 2011 ACS on STN
RN 855713-23-4 REGISTRY
ED Entered STN: 18 Jul 2005
CN Acetamide, N-[4-(aminosulfonyl)phenyl]-2-cyano-2-[2-[4-(1,3-dioxo-1H-benz[de]isoquinolin-2(3H)-yl)phenyl]hydrazinylidene]- (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Acetamide, N-[4-(aminosulfonyl)phenyl]-2-cyano-2-[[4-(1,3-dioxo-1H-benz[de]isoquinolin-2(3H)-yl)phenyl]hydrazono]- (9CI)
MF C27 H18 N6 O5 S
SR Chemical Library
Supplier: Enamine
LC STN Files: CHEMCATS



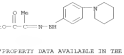
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L26 ANSWER 11 OF 24 REGISTRY COPYRIGHT 2011 ACS on STN
RN 854358-32-8 REGISTRY
ED Entered STN: 10 Oct 2005
CN Acetamide, 2-[2-[3-[[4-chlorophenyl]amino]sulfonyl]-4-(1-piperidinyl)phenyl]hydrazinylidene]-2-cyano-N-2-thiazolyl- (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Acetamide, 2-[3-[[(4-chlorophenyl)amino]sulfonyl]-4-(1-piperidinyl)phenyl]hydrazono]-2-cyano-N-2-thiazolyl- (9CI)
MF C23 H22 Cl N7 O3 S2
SR Chemical Library
Supplier: Enamine
LC STN Files: CHEMCATS



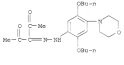
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L26 ANSWER 12 OF 24 REGISTRY COPYRIGHT 2011 ACS on STN
RN 736948-68-4 REGISTRY
ED Entered STN: 01 Sep 2004
CN Propanoic acid, 2-[2-[4-(1-piperidinyl)phenyl]hydrazinylidene]-, ethyl ester (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Propanoic acid, 2-[[4-(1-piperidinyl)phenyl]hydrazono]-, ethyl ester (9CI)
MF C16 H23 N3 O2
SR Chemical Library
Supplier: Vitas-M
LC STN Files: CHEMCATS



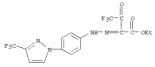
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L26 ANSWER 13 OF 24 REGISTRY COPYRIGHT 2011 ACS on STN
RN 701921-38-2 REGISTRY
ED Entered STN: 01 Jul 2004
CN 2,3,4-Pentanetrione, 3-[2-[2,5-dibutoxy-4-(4-morpholinyl)phenyl]hydrazone] (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 2,3,4-Pentanetrione, 3-[[2,5-dibutoxy-4-(4-morpholinyl)phenyl]hydrazono] (9CI)
MF C23 H35 N3 O5
SR Chemical Library
Supplier: LaboTest
LC STN Files: CHEMCATS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L26 ANSWER 14 OF 24 REGISTRY COPYRIGHT 2011 ACS on STN
RN 681136-25-4 REGISTRY
ED Entered STN: 11 May 2004
CN Butanoic acid, 4,4,4-trifluoro-3-oxo-2-[2-[4-[3-(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]hydrazinylidene]-, ethyl ester (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Butanoic acid, 4,4,4-trifluoro-3-oxo-2-[[4-[3-(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]hydrazono]-, ethyl ester (9CI)
MF C16 H12 F6 N4 O3
SR Chemical Library
Supplier: Maybridge plc
LC STN Files: CHEMCATS

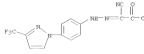


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L26 ANSWER 15 OF 24 REGISTRY COPYRIGHT 2011 ACS on STN
RN 681136-24-9 REGISTRY
ED Entered STN: 11 May 2004
CN Propanedinitrile, 2-[2-[4-[3-(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]hydrazinylidene]- (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Propanedinitrile, [[4-[3-(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]hydrazono]- (9CI)
MF C13 H7 F3 N6
SR Chemical Library
Supplier: Maybridge plc
LC STN Files: CHEMCATS

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L26 ANSWER 16 OF 24 REGISTRY COPYRIGHT 2011 ACS on STN
RN 681136-23-8 REGISTRY
ED Entered STN: 11 May 2004
CN Acetic acid, 2-cyano-2-[2-[4-[3-(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]hydrazinylidene]-, ethyl ester (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Acetic acid, cyano[[4-[3-(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]hydrazono]-, ethyl ester (9CI)
MF C15 H12 F3 N5 O2
SR Chemical Library
Supplier: Maybridge plc
LC STN Files: CHEMCATS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

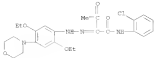
L26 ANSWER 17 OF 24 REGISTRY COPYRIGHT 2011 ACS on STN
RN 681136-22-7 REGISTRY
ED Entered STN: 11 May 2004
CN 2,3,4-Pentanetrione, 3-[2-[4-[3-(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]hydrazono] (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 2,3,4-Pentanetrione, 3-[[4-[3-(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]hydrazono] (9CI)
MF C15 H13 F3 N4 O2
SR Chemical Library
Supplier: Maybridge plc
LC STN Files: CHEMCATS

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L26 ANSWER 18 OF 24 REGISTRY COPYRIGHT 2011 ACS on STN
RN 468102-52-5 REGISTRY
ED Entered STN: 31 Oct 2002
CN Ethanethioamide, 2-cyano-2-[2-[4-(6-methyl-2-benzothiazolyl)phenyl]hydrazinylidene]- (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Ethanethioamide, 2-cyano-2-[[4-(6-methyl-2-benzothiazolyl)phenyl]hydrazono]- (9CI)
MF C17 H13 N5 S2
SR Chemical Library
Supplier: Scientific Exchange, Inc.
LC STN Files: CHEMCATS

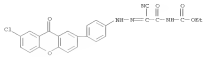
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L26 ANSWER 19 OF 24 REGISTRY COPYRIGHT 2011 ACS on STN
RN 345992-01-8 REGISTRY
ED Entered STN: 16 Jul 2001
CN Butanamide, N-[2-chlorophenyl]-2-[2-[2,5-diethoxy-4-[4-morpholinyl]phenyl]hydrazinylidene]-3-oxo- (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Butanamide, N-[2-chlorophenyl]-2-[[2,5-diethoxy-4-[4-morpholinyl]phenyl]hydrazono]-3-oxo- (9CI)
MF C24 H29 Cl N4 O5
SR Chemical Library
Supplier: Scientific Exchange, Inc.
LC STN Files: CHEMCATS



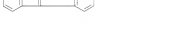
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L26 ANSWER 20 OF 24 REGISTRY COPYRIGHT 2011 ACS on STN
RN 344757-18-2 REGISTRY
ED Entered STN: 06 Jul 2001
CN Carbamic acid, [[4-(7-chloro-9-oxo-9H-xanthen-2-yl)phenyl]hydrazono]cyanoacetyl-, ethyl ester (9CI) (CA INDEX NAME)
MF C25 H17 Cl N4 O5
SR Reaction Database
LC STN Files: CASREACT



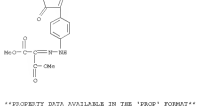
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L26 ANSWER 21 OF 24 REGISTRY COPYRIGHT 2011 ACS on STN
RN 342620-43-3 REGISTRY
ED Entered STN: 20 Jun 2001
CN 1H-Indole-2-carboxylic acid, 3-[4-[2-[2-ethoxy-1-methyl-2-oxoethylidene]hydrazinyl]phenyl]-, ethyl ester (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 1H-Indole-2-carboxylic acid, 3-[4-[[2-ethoxy-1-methyl-2-oxoethylidene]hydrazono]phenyl]-, ethyl ester (9CI)
MF C22 H23 N3 O4
SR Reaction Database
LC STN Files: CASREACT



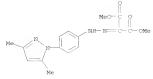
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L26 ANSWER 22 OF 24 REGISTRY COPYRIGHT 2011 ACS on STN
RN 326908-98-9 REGISTRY
ED Entered STN: 13 Mar 2001
CN Propanedioic acid, 2-[2-[4-(2,3-dihydro-1,5-dimethyl-3-oxo-2-phenyl-1H-pyrazol-4-yl)phenyl]hydrazinylidene]-, 1,3-dimethyl ester (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Propanedioic acid, [[4-(2,3-dihydro-1,5-dimethyl-3-oxo-2-phenyl-1H-pyrazol-4-yl)phenyl]hydrazono]-, dimethyl ester (9CI)
MF C22 H22 N4 O5
SR Chemical Library
Supplier: Oak Samples Ltd.
LC STN Files: CHEMCATS



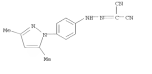
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L26 ANSWER 23 OF 24 REGISTRY COPYRIGHT 2011 ACS on STN
RN 258353-24-1 REGISTRY
ED Entered STN: 07 Mar 2000
CN Propanedioic acid, 2-[2-[4-(3,5-dimethyl-1H-pyrazol-1-yl)phenyl]hydrazinylidene]-, 1,3-dimethyl ester (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Propanedioic acid, [[4-(3,5-dimethyl-1H-pyrazol-1-yl)phenyl]hydrazono]-, dimethyl ester (9CI)
MF C16 H18 N4 O4
SR CAS Client Services
LC STN Files: CHEMCATS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L26 ANSWER 24 OF 24 REGISTRY COPYRIGHT 2011 ACS on STN
RN 258353-22-9 REGISTRY
ED Entered STN: 07 Mar 2000
CN Propanedinitrile, 2-[2-[4-(3,5-dimethyl-1H-pyrazol-1-yl)phenyl]hydrazinylidene]- (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Propanedinitrile, [[4-(3,5-dimethyl-1H-pyrazol-1-yl)phenyl]hydrazono]- (9CI)
MF C14 H12 N6
SR CAS Client Services
LC STN Files: CHEMCATS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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COST IN U.S. DOLLARS                                    SINCE FILE      TOTAL
                                                          ENTRY    SESSION
FULL ESTIMATED COST                                       257.22    1674.10

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)              SINCE FILE      TOTAL
                                                          ENTRY    SESSION
CA SUBSCRIBER PRICE                                         0.00     -95.70

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DICTIONARY FILE UPDATES:  25 JUL 2011  HIGHEST RN 1313702-17-8

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TSCA INFORMATION NOW CURRENT THROUGH January 14, 2011.

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document.  For information
on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=>
Uploading C:\Users\randerson\Documents\STN Express 8.4\Queries\QUERIES\105514145.str
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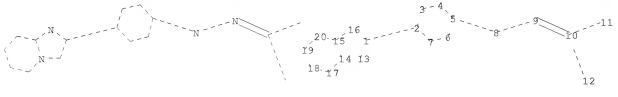


```
chain nodes :
8  9  10  11  12
ring nodes :
1  2  3  4  5  6  7  13  14  15  16  17  18  19  20
chain bonds :
1-2  5-8  8-9  9-10  10-11  10-12
ring bonds :
1-13  1-16  2-3  2-7  3-4  4-5  5-6  6-7  13-14  14-15  14-17  15-16  15-20  17-18
18-19  19-20
```

```
exact/norm bonds :
1-2  1-13  1-16  2-3  2-7  3-4  4-5  5-6  5-8  6-7  8-9  9-10  10-11  10-12  13-14
14-15  14-17  15-16  15-20  17-18  18-19  19-20


Match level :
1:Atom  2:Atom  3:Atom  4:Atom  5:Atom  6:Atom  7:Atom  8:CLASS  9:CLASS  10:CLASS
11:Atom  12:CLASS  13:Atom  14:Atom  15:Atom  16:Atom  17:Atom  18:Atom  19:Atom
20:Atom



L27     STRUCTURE UPLOADED

=> d
L27 HAS NO ANSWERS
L27             STR
```


```
Structure attributes must be viewed using STN Express query preparation.


=> s l27
SAMPLE SEARCH INITIATED 12:11:16 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -        2 TO ITERATE

100.0% PROCESSED        2 ITERATIONS                                0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE   **COMPLETE**
                        BATCH    **COMPLETE**
PROJECTED ITERATIONS:             2 TO      124
PROJECTED ANSWERS:                0 TO        0

L28           0 SEA SSS SAM L27

=> s l27 full
FULL SEARCH INITIATED 12:11:19 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -       61 TO ITERATE

100.0% PROCESSED       61 ITERATIONS                                4 ANSWERS
SEARCH TIME: 00.00.01

L29           4 SEA SSS FUL L27

=> s l29 and caplus/lc
```

```
      75279646 CAPLUS/LC
L30           4 L29 AND CAPLUS/LC

=> fil caplus
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                    202.56    1876.66

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                       ENTRY    SESSION
CA SUBSCRIBER PRICE                                      0.00     -95.70

FILE 'CAPLUS' ENTERED AT 12:11:27 ON 26 JUL 2011
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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COPYRIGHT (C) 2011 AMERICAN CHEMICAL SOCIETY (ACS)
```



```
FILE COVERS 1907 - 26 Jul 2011  VOL 155 ISS 5
FILE LAST UPDATED: 25 Jul 2011  (20110725/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED:  Jun 2011
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE:  Jun 2011

CAplus now includes complete International Patent Classification (IPC)
reclassification data for the first quarter of 2011.

CAS Information Use Policies apply and are available at:

http://www.cas.org/legal/infopolicy.html

This file contains CAS Registry Numbers for easy and accurate
substance identification.

=> s l30
L31           1 L30

=> d
```

```
L31  ANSWER 3 OF 3  CAPLUS  COPYRIGHT 2011 ACS on STN
AN   2004:657347  CAPLUS
DN   141:350174
TI   Preparation of benzaldehyde or heterocycle carboxaldehyde hydrazone
     derivatives as inhibitors of agglutination and/or deposition of an
     amyloid
     protein or amyloid-like protein
IN   Kasapoa, Kaichi; Motoki, Kayoko; Odagiri, Takashi; Suzuki, Nobuyuki;
     Chen, Chun-Jen; Mimura, Tetsuya
PA   Daiichi Pharmaceutical Co., Ltd., Japan
SO   PCT Int. Appl., 256 pp.
     CODEN: PIXD2
DT   Patent
LA   Japanese
FAN.CNT 1
     PATENT NO.          KIND   DATE        APPLICATION NO.          DATE
     ------------------  ----   --------    ------------------       --------
PI   WO 2004087941       A1     20041014    WO 2004-JP4097           20040331
        W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
           CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD,
           GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
           LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
           NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
           TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
        RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ,
           BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE,
           ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,
           SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN,
           TD, TG
     CA 2521056           A1     20041014    CA 2004-2521056          20040331
     EP 1612204           A1     20060104    EP 2004-724752           20040331
        R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
           IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK
     US 20060276433       A1     20061207    US 2005-551414           20050930
PRAI JP 2003-94257        A      20030331
     WO 2004-JP4097       W      20040331
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OS   MARPAT 141:350174
OSC.G   6    THERE ARE 6 CAPLUS RECORDS THAT CITE THIS RECORD (10 CITINGS)
RE.CNT   5   THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
             ALL CITATIONS AVAILABLE IN THE RE FORMAT
```

```
=> fil reg
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                      ENTRY    SESSION
FULL ESTIMATED COST                                    1.87    1878.53

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                      ENTRY    SESSION
CA SUBSCRIBER PRICE                                    0.00     -95.70

FILE 'REGISTRY' ENTERED AT 12:11:35 ON 26 JUL 2011
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provided by InfoChem.

STRUCTURE FILE UPDATES:   25 JUL 2011  HIGHEST RN 1313702-17-8
DICTIONARY FILE UPDATES:  25 JUL 2011  HIGHEST RN 1313702-17-8

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http://www.cas.org/legal/infopolicy.html

TSCA INFORMATION NOW CURRENT THROUGH January 14, 2011.

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document.  For information
on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=> fil reg
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                      ENTRY    SESSION
FULL ESTIMATED COST                                    5.10    1883.63

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                      ENTRY    SESSION
CA SUBSCRIBER PRICE                                    0.00     -95.70

FILE 'REGISTRY' ENTERED AT 12:17:25 ON 26 JUL 2011
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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provided by InfoChem.

STRUCTURE FILE UPDATES:   25 JUL 2011  HIGHEST RN 1313702-17-8
DICTIONARY FILE UPDATES:  25 JUL 2011  HIGHEST RN 1313702-17-8

CAS Information Use Policies apply and are available at:
```

http://www.cas.org/legal/infopolicy.html

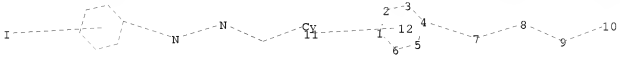
TSCA INFORMATION NOW CURRENT THROUGH January 14, 2011.

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=>
Uploading C:\Users\randerson\Documents\STN Express 8.4\Queries\QUERIES\105514146.str

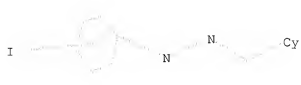


chain nodes :
7 8 9 10 11
ring nodes :
1 2 3 4 5 6
chain bonds :
4-7 7-8 8-9 9-10
ring bonds :
1-6 1-2 2-3 3-4 4-5 5-6
exact/norm bonds :
1-6 1-2 2-3 3-4 4-5 4-7 5-6 7-8 8-9 9-10

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:Atom
11:CLASS 12:CLASS
Element Count :
Node 10: Limited
    C,Range,5-6
    N,Range,0-1
    O,Exact,0
    S,Exact,0

L32   STRUCTURE UPLOADED

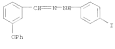
=> d
L32 HAS NO ANSWERS
L32   STR



Structure attributes must be viewed using STN Express query preparation.

```
=> s l32
SAMPLE SEARCH INITIATED 12:17:54 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -      297 TO ITERATE

100.0% PROCESSED      297 ITERATIONS                                13 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:         4906 TO     6974
PROJECTED ANSWERS:              44 TO      476

L33          13 SEA SSS SAM L32

=> s l32 full
FULL SEARCH INITIATED 12:17:59 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -     5961 TO ITERATE

100.0% PROCESSED     5961 ITERATIONS                               261 ANSWERS
SEARCH TIME: 00.00.01

L34         261 SEA SSS FUL L32

=> s l34 and caplus/lc
      75279646 CAPLUS/LC
L35        170 L34 AND CAPLUS/LC

=> s l35 not l34
L36          0 L35 NOT L34

=> s l34 not l35
L37         91 L34 NOT L35

=> d 80
```

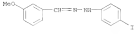
L17 ANSWER 80 OF 91 REGISTRY COPYRIGHT 2011 ACS on STN
RN 676147-56-1 REGISTRY
ED Entered STN: 19 Apr 2004
CN Benzaldehyde, 3-phenoxy-, 2-(4-iodophenyl)hydrazone (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Benzaldehyde, 3-phenoxy-, (4-iodophenyl)hydrazone (9CI)
MF C19 H15 I N2 O
SR Chemical Library
Supplier: Asinex
LC STN Files: CHEMCATS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

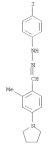
```
=> d 81-91
```

L37 ANSWER 81 OF 91 REGISTRY COPYRIGHT 2011 ACS on STN
RN 675837-93-8 REGISTRY
ED Entered STN: 16 Apr 2004
CN Benzaldehyde, 3-methoxy-, (4-iodophenyl)hydrazone (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Benzaldehyde, 3-methoxy-, (4-iodophenyl)hydrazone (9CI)
MF C14 H13 I N2 O
SR Chemical Library
Supplier: Ambinter
LC STN Files: CHEMCATS



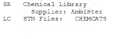
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L37 ANSWER 82 OF 91 REGISTRY COPYRIGHT 2011 ACS on STN
RN 675837-69-1 REGISTRY
ED Entered STN: 16 Apr 2004
CN Benzaldehyde, 2-methyl-4-(1-pyrrolidinyl)-, 2-(4-iodophenyl)hydrazone (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Benzaldehyde, 2-methyl-4-(1-pyrrolidinyl)-, (4-iodophenyl)hydrazone (9CI)
MF C18 H20 I N3
SR Chemical Library
Supplier: Ambinter
LC STN Files: CHEMCATS



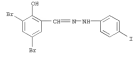
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L37 ANSWER 83 OF 91 REGISTRY COPYRIGHT 2011 ACS on STN
RN 675188-82-0 REGISTRY
ED Entered STN: 14 Apr 2004
CN 3-Pyridinecarboxaldehyde, 2-(4-iodophenyl)hydrazone (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 3-Pyridinecarboxaldehyde, (4-iodophenyl)hydrazone (9CI)
MF C12 H10 I N3
SR Chemical Library
Supplier: Ambinter
LC STN Files: CHEMCATS



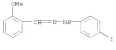
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L37 ANSWER 84 OF 91 REGISTRY COPYRIGHT 2011 ACS on STN
RN 675110-47-1 REGISTRY
ED Entered STN: 14 Apr 2004
CN Benzaldehyde, 3,5-dibromo-2-hydroxy-, 2-(4-iodophenyl)hydrazone (CA INDEX
NAME)
OTHER CA INDEX NAMES:
CN Benzaldehyde, 3,5-dibromo-2-hydroxy-, (4-iodophenyl)hydrazone (9CI)
MF C13 H9 Br2 I N2 O
SR Chemical Library
Supplier: Ambinter
LC STN Files: CHEMCATS



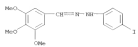
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L37 ANSWER 85 OF 91 REGISTRY COPYRIGHT 2011 ACS on STN
RN 675110-38-6 REGISTRY
ED Entered STN: 14 Apr 2004
CN Benzaldehyde, 2-methoxy-, 2-(4-iodophenyl)hydrazone (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Benzaldehyde, 2-methoxy-, (4-iodophenyl)hydrazone (9CI)
MF C14 H13 I N2 O
SR Chemical Library
Supplier: Ambinter
LC STN Files: CHEMCATS



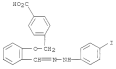
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L37 ANSWER 86 OF 91 REGISTRY COPYRIGHT 2011 ACS on STN
RN 675110-29-9 REGISTRY
ED Entered STN: 14 Apr 2004
CN Benzaldehyde, 3,4,5-trimethoxy-, 2-(4-iodophenyl)hydrazone (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Benzaldehyde, 3,4,5-trimethoxy-, (4-iodophenyl)hydrazone (9CI)
MF C16 H17 I N2 O3
SR Chemical Library
Supplier: Ambinter
LC STN Files: CHEMCATS



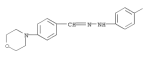
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L37 ANSWER 87 OF 91 REGISTRY COPYRIGHT 2011 ACS on STN
RN 674349-90-7 REGISTRY
ED Entered STN: 12 Apr 2004
CN Benzoic acid, 4-[[2-[[2-(4-iodophenyl)hydrazinylidene]methyl]phenoxy]methyl]- (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Benzoic acid, 4-[[2-[[(4-iodophenyl)hydrazono]methyl]phenoxy]methyl]- (9CI)
MF C21 H17 I N2 O3
SR Chemical Library
Supplier: Ambinter
LC STN Files: CHEMCATS



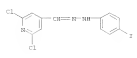
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L37 ANSWER 88 OF 91 REGISTRY COPYRIGHT 2011 ACS on STN
RN 355135-49-8 REGISTRY
ED Entered STN: 07 Sep 2001
CN Benzaldehyde, 4-[4-morpholinyl)-, 2-(4-iodophenyl)hydrazone (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Benzaldehyde, 4-[4-morpholinyl)-, (4-iodophenyl)hydrazone (9CI)
MF C17 H18 I N3 O
SR Chemical Library
Supplier: ChemBridge Corporation
LC STN Files: CHEMCATS



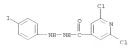
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L37 ANSWER 89 OF 91 REGISTRY COPYRIGHT 2011 ACS on STN
RN 287917-72-9 REGISTRY
ED Entered STN: 30 Aug 2000
CN 4-Pyridinecarboxaldehyde, 2,6-dichloro-, 2-(4-iodophenyl)hydrazone (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 4-Pyridinecarboxaldehyde, 2,6-dichloro-, (4-iodophenyl)hydrazone (9CI)
MF C12 H8 Cl2 I N3
SR CAS Client Services
LC STN Files: CHEMCATS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L37 ANSWER 90 OF 91 REGISTRY COPYRIGHT 2011 ACS on STN
RN 286832-91-5 REGISTRY
ED Entered STN: 20 Aug 2000
CN 4-Pyridinecarboxylic acid, 2,6-dichloro-, 2-(4-iodophenyl)hydrazide (CA INDEX NAME)
MF C12 H8 Cl2 I N3 O
SR CAS Client Services
LC STN Files: CHEMCATS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L37 ANSWER 91 OF 91 REGISTRY COPYRIGHT 2011 ACS on STN
RN 261624-74-8 REGISTRY
ED Entered STN: 13 Apr 2000
CN Benzoic acid, 3,5-dichloro-, 2-(4-iodophenyl)hydrazide (CA INDEX NAME)
MF C13 H9 Cl2 I N2 O
SR CAS Client Services
LC STN Files: CHEMCATS

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

=> fil caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	230.40	2114.03

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-95.70

FILE 'CAPLUS' ENTERED AT 12:20:31 ON 26 JUL 2011
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FILE COVERS 1907 - 26 Jul 2011 VOL 155 ISS 5
FILE LAST UPDATED: 25 Jul 2011 (20110725/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Jun 2011
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Jun 2011

```
     FILE 'REGISTRY' ENTERED AT 11:28:33 ON 26 JUL 2011
L9                STRUCTURE UPLOADED
L10           10 S L9
L11          165 S L9 FULL
L12          146 S L11 AND CAPLUS/LC
L13           19 S L11 NOT L12

     FILE 'CAPLUS' ENTERED AT 11:29:44 ON 26 JUL 2011
L14           35 S L12

     FILE 'STNGUIDE' ENTERED AT 11:32:44 ON 26 JUL 2011

     FILE 'REGISTRY' ENTERED AT 11:51:13 ON 26 JUL 2011
L15               STRUCTURE UPLOADED
L16           13 S L15
L17          297 S L15 FULL
L18          258 S L17 AND CAPLUS/LC
L19           39 S L17 NOT L18

     FILE 'CAPLUS' ENTERED AT 11:54:15 ON 26 JUL 2011
L20           72 S L18

     FILE 'STNGUIDE' ENTERED AT 11:59:08 ON 26 JUL 2011

     FILE 'CAPLUS' ENTERED AT 12:06:29 ON 26 JUL 2011
L21               STRUCTURE UPLOADED
                  S L21
```

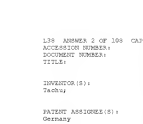
```
L37          91 S L34 NOT L35

     FILE 'CAPLUS' ENTERED AT 12:20:31 ON 26 JUL 2011

=> s l35
L38         108 L35

=> d ibib abs hitstr 1-108
```

L38 ANSWER 1 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2011:235313 CAPLUS
DOCUMENT NUMBER: 154:283989
TITLE: Hydrazones as enhancers of protein degradation and their preparation and use in the treatment of huntingtin-related disorders
INVENTOR(S): Wanker, Erich; Wiglenda, Thomas; Rabila, Julius Tachu; Boeddrich, Annett; Schmidt, Michael; Neuendorf, Sandra; Schiele, Franziska
PATENT ASSIGNEE(S): Max-Delbrueck-Centrum fuer Molekulare Medizin, Germany
SOURCE: Eur. Pat. Appl., 52pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 2287149	A1	20110223	EP 2009-168311	20090820
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LI, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, SM, TR, AL, BA, RS				
WO 2011020983	A1	20110224	WO 2010-EP62111	20100819
W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
RW: AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, SM, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LR, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				

PRIORITY APPLN. INFO.: EP 2009-168311 A 20090820

GI



AB The invention relates to compds. of formula I suitable for modulating huntingtin (Htt) processing and useful for treating or preventing huntingtin-related disorders. The invention provides pharmaceutical compns. comprising said compds. and methods of syntheses thereof. Compds.

L38 ANSWER 2 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2011:235312 CAPLUS
DOCUMENT NUMBER: 154:283979
TITLE: Hydrazones as enhancers of protein degradation and their preparation and use in the treatment of huntingtin-related disorders
INVENTOR(S): Wanker, Erich; Wiglenda, Thomas; Rabila, Julius Tachu; Boeddrich, Annett; Schmidt, Michael; Neuendorf, Sandra; Schiele, Franziska
PATENT ASSIGNEE(S): Max-Delbrueck-Centrum fuer Molekulare Medizin, Germany
SOURCE: PCT Int. Appl., 91pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

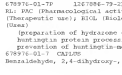
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2011020983	A1	20110224	WO 2010-EP62111	20100819
W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
RW: AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, SM, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LR, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
EP 2287149	A1	20110223	EP 2009-168311	20090820
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LI, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, SM, TR, AL, BA, RS				

PRIORITY APPLN. INFO.: EP 2009-168311 A 20090820

OTHER SOURCE(S): CASREACT 154:283979; MARPAT 154:283979
GI

AB The invention relates to compds. of formula I suitable for modulating huntingtin (Htt) protein processing and useful for treating or preventing huntingtin-related disorders. The invention provides pharmaceutical compns. comprising said compds. and methods of syntheses thereof. Compds.

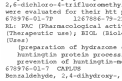
L38 ANSWER 3 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)
of formula I wherein at least one of R1 and R2 is H, CN, (un)substituted C1-6 alkyl, (un)substituted C2-16 alkenyl, etc.; and the other one of R1 and R2 is H, C1-3 alkyl and aryl; at least one of R3 and R4 is (un)substituted C3-14 carbocyclyl and heterocyclyl; and one of R3 and R4 is H and Me; and physiol. acceptable salts, hydrates, solvates, tautomers, stereoisomers, metabolites, and prodrugs thereof, are claimed. Example compd. II was prepd. by condensation of 2,4-dihydroxybenzaldehyde with 2,6-dichloro-4-trifluoromethylphenylhydrazine. All the invention compds. were evaluated for their Htt protein modulatory activity (some data given).
IT 679976-01-7P 1267886-79-2P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of hydrazone compds. as protein degradation enhancers and huntingtin protein processing modulators useful in treatment and prevention of huntingtin-mediated diseases)
RN 679976-01-7 CAPLUS
CN Benzaldehyde, 2,4-dihydroxy-, 2-(4-iodophenyl)hydrazone (CA INDEX NAME)



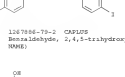
RN 1267886-79-2 CAPLUS
CN Benzaldehyde, 2,4,5-trihydroxy-, 2-(4-iodophenyl)hydrazone (CA INDEX NAME)

REFERENCE COUNT: 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L38 ANSWER 4 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)
of formula I wherein at least one of R1 and R2 is H, CN, (un)substituted C1-16 alkyl, (un)substituted C2-16 alkenyl, etc.; and the other one of R1 and R2 is H, C1-3 alkyl and aryl; at least one of R3 and R4 is (un)substituted C3-14 carbocyclyl or heterocyclyl; and one of R3 and R4 is H and Me; and physiol. acceptable salts, hydrates, solvates, tautomers, stereoisomers, metabolites and prodrugs thereof, are claimed. Example compd. II was prepd. by condensation of 2,4-dihydroxybenzaldehyde with 2,6-dichloro-4-trifluoromethylphenylhydrazine. All the invention compds. were evaluated for their Htt protein modulatory activity (data given).
IT 679976-01-7P 1267886-79-2P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of hydrazone compds. as protein degradation enhancers and huntingtin protein processing modulators useful in treatment and prevention of huntingtin-mediated diseases)
RN 679976-01-7 CAPLUS
CN Benzaldehyde, 2,4-dihydroxy-, 2-(4-iodophenyl)hydrazone (CA INDEX NAME)



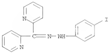
RN 1267886-79-2 CAPLUS
CN Benzaldehyde, 2,4,5-trihydroxy-, 2-(4-iodophenyl)hydrazone (CA INDEX NAME)



REFERENCE COUNT: 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L38 ANSWER 3 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2010:1544334 CAPLUS
DOCUMENT NUMBER: 154:122112
TITLE: Structures of four bis(pyridine-2-yl) ketone arylhydrazone derivatives: differences in molecular conformations and intermolecula interactions
AUTHOR(S): Franca, Luciana de Souza; de Lima, Geraldo M.; Wardell, James L.; Wardell, Solange M. S. V.
CORPORATE SOURCE: Departamento de Quimica, ICEx, Universidade Federal de
Minas Gerais, Belo Horizonte, MG, 31270-901, Brazil
SOURCE: Zeitschrift fuer Kristallographie (2010), 225(10), 425-433
CODEN: ZEKRDZ; ISSN: 0044-2968
PUBLISHER: Oldenbourg Wissenschaftsverlag GmbH
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Crystal structures of bis(pyridine-2-yl) ketone arylhydrazone derivs., [6,
$(py)_2C=NNHC_6H_4X$ (X = H, 2-O2N, 4-O2N and 4-I)] were determined from data collected at 120 K. Crystallog. data are given. A 3rd polymorph of (6: X
= 4-O2N) was characterized. Compds., (6: X = 2-O2N) and two of the three now known polymorphs of (6: X = 4-O2N), β- and γ [this study], have similar conformations, which are quite distinct from that of α-(6: X = 4-O2N) and (6: X = 4-I) [this study]. The mol. conformation of (6: X = H) is intermediate between the two extremes. For compound (6: X = H), the supramol. arrangement is made from C-H···N H bond, π···π stacking and C-H-(arene) interactions, while that for (6: X = 4-I) is composed of N-H···N, C-H···N and C-H-π interactions. C-HO and π···π stacking interactions are present in γ-(6: X = 4-O2N). In contrast, (6: X = 2-O2N) exists as discrete mols. with no intermol. contacts within the appropriate sum of van der Waals radii.
IT 1260250-94-9P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(crystal structure of)
RN 1260250-94-9 CAPLUS
CN Methanone, di-2-pyridinyl-, 2-(4-iodophenyl)hydrazone (CA INDEX NAME)

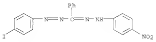


REFERENCE COUNT: 34 THERE ARE 34 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L38 ANSWER 4 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2009:1538002 CAPLUS
DOCUMENT NUMBER: 152:232903
TITLE: A High-Throughput Screening Method for Chiral Alcohols
and its Application to Determine Enantioselectivity of
Lipases and Esterases
AUTHOR(S): Bustos-Jaimes, Ismael; Hummel, Werner; Eggert, Thorsten; Bogo, Eliane; Puls, Michael; Weckbecker, Andrea; Jaeger, Karl-Erich
CORPORATE SOURCE: Institut fuer Molekulare Enzymtechnologie, Forschungszentrum Juelich, Heinrich-Heine Universitaet
Duesseldorf, Juelich, 52426, Germany
SOURCE: ChemCatChem (2009), 1(4), 445-448
CODEN: CHEMK3; ISSN: 1867-3880
PUBLISHER: Wiley-VCH Verlag GmbH & Co. KGaA
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Chiral alcs. are valuable intermediates in the synthesis of pharmaceutical, agricultural, and fine chems., which can be produced either by hydrocarbon oxidation, ketone reduction, or ester hydrolysis. Nevertheless, these reactions usually produce non-enantiopure compds. For this reason, several methods for the enantioselective synthesis of alcs. have been developed, which range from the synthesis of catalysts by combinatorial chemical to the in vitro directed evolution of enzymes. In any case, high-throughput methods need to be applied to measure the enantiomeric excess [ee] or enantiopurity of the produced alcs. within a large number of samples. Several methods for high-throughput screening for enantioselectivity of catalysts have been reported, including electrospray ionization coupled to mass spectrometry, HPLC coupled to CD, FTIR spectroscopy, and enzymic methods. Some of these sophisticated methods require, however, isotopically labeled pseudo-enantiomers for the assay and occasionally expensive equipment. Herein, a new colorimetric method is reported for the evaluation of the ee values of alcs. based on enantioselective alc. dehydrogenases (ADHs) coupled to a NADP (NADPH) oxidase (diaphorase) and its successful application in directed evolution for the screening of mutant libraries of lipases for enantioselective ester hydrolysis. The assay is based on the enantioselective oxidation of alcs. by two different ADHs assayed sep. in parallel assays: the (R)-specific ADH from Lactobacillus kefir (LKADH) and the (S)-specific ADH from Rhodococcus erythropolis (READH), of which enantioselectivities and catalytic properties have been reported. The oxidation of either (R)-1 or (S)-1 produces NAD(P)H, which is again oxidized to NAD(P) by diaphorase from Clostridium kluyveri with the concomitant reduction of 2-(4-iodophenyl)-3-(4-nitrophenyl)-5-phenyl-2H-tetrazolium (INT) to its corresponding red formazan derivative The formation of this dye can be easily followed at 492 nm. The reaction is carried out within five minutes, during which the slope of color development over time is linear. The regeneration of the oxidized form of the coenzyme also ensures high

L38 ANSWER 4 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)
reaction rates of ADHs. As in any other coupled assay, the amt. of diaphorase, the coupling enzyme, was kept in excess relative to the ADH enzymes in order to follow first-order kinetics.
IT 7781-49-9
RL: ANT (Analyte); BSU (Biological study, unclassified); ANST (Analytical study); BIOL (Biological study)
(high-throughput screening method for chiral alcs. and its application to determine enantioselectivity of lipases and esterases)
RN 7781-49-9 CAPLUS
CN Methanone, [2-(4-iodophenyl)diazenyl]phenyl-, 2-(4-nitrophenyl)hydrazone (CA INDEX NAME)



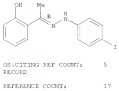
OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD
(1 CITINGS)
REFERENCE COUNT: 45 THERE ARE 45 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L38 ANSWER 5 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2009:681965 CAPLUS
DOCUMENT NUMBER: 152:157558
TITLE: 2-Hydroxyacetophenone arylhydrazones. Supramolecular arrangements based on C-H ···
O(H), C-H ··· O(NO), N-H
··· O(H), N-H
··· O(NO), C-H
··· π or π
··· π interactions
AUTHOR(S): Baddeley, Thomas C.; Franca, Luciana de Souza; Howie, R. Alan; de Lima, Geraldo M.; Skakle, Janet M. S.; Dias de Souza, Jose; Wardell, James L.; Wardell, Solange M. S. V.
CORPORATE SOURCE: Department of Chemistry, University of Aberdeen, Old Aberdeen, AB24 3UE, UK
SOURCE: Zeitschrift fuer Kristallographie (2009), 224(4), 213-224
CODEN: ZEKRDZ; ISSN: 0044-2968
PUBLISHER: Oldenbourg Wissenschaftsverlag GmbH
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Crystal structures, NMR and IR spectra and EI-MS+ of 2-hydroxyacetophenone
arylhydrazones, 2-HOC6H4C(Me)=NNHC6H4Y (1: Y = 2-O2N, 3-O2N, 4-O2N, 4-Me, 4-MeO, H and 4-I) are reported. Two polymorphs of (1: Y = 2-O2N), triclinic and orthorhombic forms, were identified. While strong intramol.
O-H ··· N(H) H bonds and layers of mols. are found for all solid 1, supramol. arrangements of individual members are various and are derived from different combinations of intermol. interactions, which include C-H ··· O(H), C-H
··· O(NO), N-H ··· O(H), N-H
··· O(NO) and C-H ··· π H
bonds, as well as π ··· π stacking
interactions. Intermol. N-H ··· O H-bonds involving the phenolic OH group are present in (1: Y = H, 4-O2N, 4-Me, 4-MeO and 4-I), but are absent in ortho-and tri-(1: Y = 2-O2N) and (1: Y = 3-O2N). Instead, ortho-(1: Y = 2-O2N) exhibits intermol. C-H
··· O(H) H bonds, while no intermol. H bonds involving the OH group occur in either triclinic-(1: Y = 2-O2N) or (1: Y =
3-O2N). EI+-MS revealed oligomeric species, such as (nM + M')+, where n is up to 4, and M' = H, Na or K.
IT 1203800-15-0
RL: PRP (Properties)
(crystal structure of)
RN 1203800-15-0 CAPLUS
CN Ethanone, 1-(2-hydroxyphenyl)-, 2-(4-iodophenyl)hydrazone, (1E)- (CA INDEX NAME)

Double bond geometry as shown.

L38 ANSWER 5 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)



OS.CITING REF COUNT: 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD (5 CITINGS)

REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

L38 ANSWER 6 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2008:1061845 CAPLUS
DOCUMENT NUMBER: 149:361790
TITLE: Method for rapidly and accurately detecting electron transfer system activity of microorganisms in constructed wetland waste water treatment system
INVENTOR(S): Yan, Xuejun; Zhang, Chen; Tang, Li; Wang, Guohua
PATENT ASSIGNEE(S): Shanghai Municipal Engineering Design General Institute, Prop. Rep. China
SOURCE: Faming Zhuanli Shenqing Gongkai Shuomingshu, 15 pp. CODEN: CNXLBV

DOCUMENT TYPE: Patent
LANGUAGE: Chinese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CN 101251473	A	20080827	CN 2008-10035364	20080328
PRIORITY APPLN. INFO.:			CN 2008-10035364	20080328

AB The title method for detecting electron transfer system activity of microorganisms in constructed wetland waste water treatment system comprises collecting plant root or substrate attached with microorganisms, subjecting to ultrasonic vibration, collecting detached biofilm, and diluting with H2O to obtain microorganisms suspension; culturing in mixed solution of Tris-HCl buffer solution and Iodonitrotetrazolium (INT) in dark under vibration at 35-37° for 1-2 h; stopping enzyme reaction with formaldehyde; filtering to obtain filter cake; extracting with EtOH in dark under vibration at 35-37° for 5-10 min, filtering to obtain extract of iodonitrotetrazolium formazan (INTF) in cells of microorganisms, and measuring absorbance of the extract; and calculating electron transfer system activity of microorganisms. The inventive method can be combined with microorganisms dry weight direct measurement method to improve speed, accuracy and safety of detection, and is suitable for detecting electron transfer system activities of aerobic, anaerobic and denitrification microorganisms in a constructed wetland system.

IT 7781-69-9, Iodonitrotetrazolium formazan
RL: ANU (Analytical use, unclassified); FMU (Formation, unclassified); ANST (Analytical study); FORM (Formation, nonoperative)
(method for rapidly and accurately detecting electron transfer system activity of microorganisms in constructed wetland waste water treatment system)

RN 7781-69-9 CAPLUS
CN Methanone, [2-(4-iodophenyl)diazenyl]phenyl-, 2-(4-nitrophenyl)hydrazone (CA INDEX NAME)

L38 ANSWER 4 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)

L38 ANSWER 7 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN

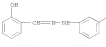
ACCESSION NUMBER: 2008:928147 CAPLUS
DOCUMENT NUMBER: 149:288647
TITLE: A Versatile and Regiospecific Synthesis of Functionalized 1,3-Diarylisobenzofurans
AUTHOR(S): Jacq, Jerome; Einhorn, Cathy; Einhorn, Jacques
CORPORATE SOURCE: Departement de Chimie Moleculaire (SERCO), UMR-5250, ICMG FR-2607, Universite Joseph Fourier, Grenoble, 38041, Fr.
SOURCE: Organic Letters (2008), 10(17), 3757-3760 CODEN: ORLEF7; ISSN: 1523-7060
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 149:288647
GI

AB A convenient, versatile, and regiospecific synthesis of functionalized 1,3-diarylisobenzofurans, e.g. I, has been developed. It involves chemoselective addition of arylmagnesium reagents to the aldehyde function of o-aroylbenzaldehydes, themselves readily obtained by lead tetraacetate oxidation of N-aroylhydrazones of salicylaldehydes. Various functional group, including nitro, iodo, or ester functionalities, have thus been positioned with complete regiospecificity on the 1,3-diphenylisobenzofuran backbone.

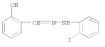
IT 676483-50-4P 1049009-37-1P 1049009-38-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(regiospecific preparation of diarylisobenzofurans via chemoselective addition of arylmagnesium reagents to o-aroylbenzaldehydes generated from oxidation of salicylaldehyde N-aroylhydrazones)

RN 676483-50-4 CAPLUS
CN Benzaldehyde, 2-hydroxy-, 2-(4-iodophenyl)hydrazone (CA INDEX NAME)

L38 ANSWER 7 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)
RN 1049029-27-3 CAPLUS
CN Benzaldehyde, 2-hydroxy-, 2-(2-iodophenyl)hydrazone (CA INDEX NAME)

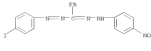


RN 1049029-28-4 CAPLUS
CN Benzaldehyde, 2-hydroxy-, 2-(2-iodophenyl)hydrazone (CA INDEX NAME)



OS.CITING REF COUNT: 6 THERE ARE 6 CAPLUS RECORDS THAT CITE THIS RECORD (7 CITINGS)
REFERENCE COUNT: 52 THERE ARE 52 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L38 ANSWER 8 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2008:908788 CAPLUS
DOCUMENT NUMBER: 150:374407
TITLE: Synthesis of the L-camphorsulfonic tetrazolium salts
AUTHOR(S): Chen, Caiku; Wang, Mingliang
CORPORATE SOURCE: School of Chemistry and Chemical Engineering, Southeast University, Nanjing, 211189, Peop. Rep. China
SOURCE: Huagong Shikan (2008), 22(3), 7-9
CODEN: HUSHEF; ISSN: 1002-154x
PUBLISHER: Huagong Shikan Zazhishe
DOCUMENT TYPE: Journal
LANGUAGE: Chinese
OTHER SOURCE(S): CASREACT 150:374407
AB A method for the synthesis of the title compds. is reported here. Organic nonlinear optical materials have great potential application value in the field of nonlinear optics and have attracted attention due to their assembling variety and high nonlinear activity. Two tetrazolium L-camphorsulfonates [i.e., 2-(4-iodophenyl)-3-(4-nitrophenyl)-5-phenyl-1H-tetrazolium L-camphorsulfonate and 2-(4,5-dimethyl-2-thiazolyl)-3,5-diphenyl-1H-tetrazolium L-camphorsulfonate] were synthesized. Their structures were confirmed by IR and 1H-NMR. These compds. are promising candidates for organic second-order nonlinear materials (no data).
IT 7781-69-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of [phenyl]tetrazolium camphorsulfonate and [phenyl](thiazolyl)tetrazolium camphorsulfonate derivs.)
RN 7781-69-9 CAPLUS
CN Methanone, [2-(4-iodophenyl)diazenyl]phenyl-, 2-(4-nitrophenyl)hydrazone (CA INDEX NAME)



L38 ANSWER 9 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2008:519020 CAPLUS
DOCUMENT NUMBER: 149:35235
TITLE: High-Throughput Screening Assay for Biological Hydrogen Production
AUTHOR(S): Schrader, Paul S.; Burrows, Elizabeth H.; Ely, Roger L.
CORPORATE SOURCE: Department of Biological and Ecological Engineering, Oregon State University, Corvallis, OR, 97333, USA
SOURCE: Analytical Chemistry (Washington, DC, United States) (2008), 80(11), 4014-4019
CODEN: ANCHAM; ISSN: 0003-2700
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
AB A screening assay, compatible with high-throughput bioprospecting or mol. mod. methods, for assessing biol. H2 production, is presented. The assay is adaptable to various phys. configurations and it was used in a 96-well, microtiter plate format. The lower plate contained H2-producing cyanobacteria strains and controls and an upper, membrane-bottom plate containing a color indicator and a catalyst. H2 produced by cells in the lower plate diffuses through the membrane into the upper plate, causing a color change that can be quantified with a microplate reader. The assay is reproducible; semiquant.; sensitive down to #20 nmol of H2 and largely unaffected by O, CO2, or volatile fatty acids at levels appropriate to biol. systems.
IT 1031374-09-0
RL: PNU (Preparation, unclassified); FORM (Formation, nonpreparative)
(in high-throughput screening assay of biol. hydrogen production using cyanobacteria)
RN 1031374-09-0 CAPLUS
CN 1,3-Benzenedisulfonic acid, 4-[[2-[2,4-dinitrophenyl]diazenyl][2-(4-sodophenyl)hydrazinylidene]methyl]-, sodium salt (1:2) (CA INDEX NAME)

OS.CITING REF COUNT: 6 THERE ARE 6 CAPLUS RECORDS THAT CITE THIS RECORD (6 CITINGS)
REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS

L38 ANSWER 9 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L38 ANSWER 10 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN

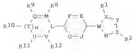
ACCESSION NUMBER: 2008:43210 CAPLUS
DOCUMENT NUMBER: 148:144766
TITLE: Heteroaromatic compounds as PDE10a inhibitors and their preparation, pharmaceutical compositions and use in the treatment of central nervous system diseases
INVENTOR(S): Hoover, Dennis Jay; Witter, Kevin G.
PATENT ASSIGNEE(S): Pfizer Products Inc., USA
SOURCE: PCT Int. Appl., 219pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2008004117	A1	20080110	WO 2007-IB2000	20070706
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
US 20080090834	A1	20080417	US 2007-770793	20070629
AR 61846	A1	20080924	AR 2007-103037	20070706

PRIORITY APPLN. INFO.: US 2006-819554P P 20060706

OTHER SOURCE(S): CASREACT 148:144766; MARPAT 148:144766
GI

L38 ANSWER 10 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)



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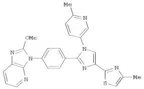
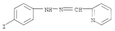


II

AB The invention pertains to heteroarom. compds. of formula I that serve as effective phosphodiesterase (PDE) inhibitors. In particular, the invention relates to said compds. which are selective inhibitors of PDE10a. The invention also relates to pharmaceutical compns. comprising said compds.; and the use of said compds. in a method for treating certain central nervous system (CNS) and other disorders. Compds. of formula I wherein N, W, X, Y and Z together form a 5-membered heteroarom. ring; W, X and Z are independently the group consisting of carbon and nitrogen; Y is (un)substituted methine, N, NO, NH and derivs., S and O; with the proviso that at least two of W, X and Z are carbon, or at least one of W, X and Z is carbon and Y is (un)substituted methine; R1 and R2 are independently (un)substituted fused Ph, (un)substituted (un)fused 5- to 6-membered heteroaryl, (un)substituted naphthyl; E, F, G and J form a 6-membered (hetero)aromatic ring with the two carbons they are attached; E, F, G and J are independently N, NO and (un)substituted methine; L, M, Q, T, U and V together form a (hetero)aromatic ring; L is carbon and nitrogen; n is 0-1; when n is 0, then M, Q, U and V are independently N, O and S; when n is 1, the M, Q, T, U and V are independently carbon and nitrogen; R8, R9, R10, R11 and R12 are independently H, hydroxy, NO2, halo, CN, formyl, carbamoyl, carboxy, amino, etc.; and their pharmaceutically acceptable salt thereof, are claimed. Example compound II was prepared by cyclocondensation of N2-{4-[1-(6-methylpyridin-3-yl)-4-(4-methylthiazol-2-yl)-1H-imidazol-2-yl]phenyl}pyridine-2,3-diamine with tetramethylorthocarbonate. All the invention compds. were evaluated for their PDE10a inhibitory activity. From the assay, it was determined that compound II exhibited an IC50 value of 0.287 nM.

L38 ANSWER 10 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)

IT 1001014-42-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(intermediate; preparation of heteroarom. compds. as PDE10a inhibitors useful in the treatment of CNS diseases)
RN 1001014-42-1 CAPLUS
CN 2-Pyridinecarboxaldehyde, 2-(4-iodophenyl)hydrazone (CA INDEX NAME)



OS.CITING REF COUNT: 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)

L38 ANSWER 11 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2007:1389813 CAPLUS
DOCUMENT NUMBER: 148:33722
TITLE: Preparation of arylpyrroles and related compounds for the treatment of thromboembolic diseases
INVENTOR(S): Haerter, Michael; Wunberg, Tobias; Allerheiligen, Swen; Bauser, Marcus; Rester, Ulrich; Heitmeier, Stefan
PATENT ASSIGNEE(S): Bayer Healthcare A.-G., Germany
SOURCE: PCT Int. Appl., 72pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007137791	A1	20071206	WO 2007-EP4693	20070525
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
DE 102006025314	A1	20071206	DE 2006-102006025314	20060531
CA 2653666	A1	20071206	CA 2007-2653666	20070525
EP 2029546	A1	20090304	EP 2007-725589	20070525
EP 2029546	B1	20100728		
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, MK, RS				
JP 2009538846	T	20091112	JP 2009-512472	20070525
AT 475651	T	20100815	AT 2007-725589	20070525
ES 2347916	T3	20101125	ES 2007-725589	20070525
US 20100029651	A1	20100204	US 2009-302503	20090828

PRIORITY APPLN. INFO.: DE 2006-102006025314A 20060531
WO 2007-EP4693 W 20070525

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): CASREACT 148:33722; MARPAT 148:33722
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Title compds. 1 [E = pyrrolidone, butyrolactams, 2-oxazolidinones, etc.; A = 5-membered heteroaryl with provisos; R2 = H, halo, CN, etc.; R3 = H, halo, CN, etc.; R4 = Ph, pyridinyl, pyrimidinyl, etc.] and their pharmaceutically acceptable salts and formulations were prepared For

L38 ANSWER 11 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)
example, N-alkylation of 2-morpholinone II afforded arylpyrrole III in 64% yield. In factor Xa inhibition assays, 3-examples of compds. I exhibited IC50 values of 0.7 and 0.8 nM.
IT 959130-20-8P 959134-99-7P 959135-07-0P
959135-15-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of arylpyrroles and related compds. for treatment of thromboembolic diseases)
RN 959130-20-8 CAPLUS
CN Ethanone, 1-phenyl-, 2-(4-iodophenyl)hydrazone (CA INDEX NAME)

RN 959134-99-7 CAPLUS
CN Ethanone, 1-phenyl-, 2-(4-iodo-3-methylphenyl)hydrazone (CA INDEX NAME)

RN 959135-07-0 CAPLUS
CN Ethanone, 1-(3-pyridinyl)-, 2-(4-iodophenyl)hydrazone (CA INDEX NAME)

RN 959135-15-0 CAPLUS
CN Ethanone, 1-(4-pyridinyl)-, 2-(4-iodophenyl)hydrazone (CA INDEX NAME)

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD
(2 CITINGS)
REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS

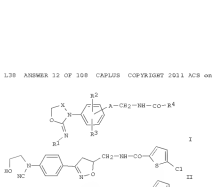
L38 ANSWER 11 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)
RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L38 ANSWER 12 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2007:1389766 CAPLUS
DOCUMENT NUMBER: 148:33713
TITLE: Preparation of 4,5-dihydroisoxazoles and related compounds for the treatment of thromboembolic diseases
INVENTOR(S): Haerter, Michael; Wunberg, Tobias; Roehrig, Susanne; Heitmeier, Stefan
PATENT ASSIGNEE(S): Bayer Healthcare A.-G., Germany
SOURCE: PCT Int. Appl., 69pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007137792	A1	20071206	WO 2007-EP4694	20070525
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW			
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
DE 102006025319	A1	20071206	DE 2006-102006025319	20060531
CA 2653670	A1	20071206	CA 2007-2653670	20070525
EP 2032567	A1	20090311	EP 2007-725590	20070525
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, MK, RS				
JP 2009538847	T	20091112	JP 2009-512473	20070525
US 20110015191	A1	20110120	US 2010-301978	20100930
PRIORITY APPLN. INFO.:			DE 2006-102006025319A	20060531
			WO 2007-EP4694 W	20070525

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): CASREACT 148:33713; MARPAT 148:33713
GI

L38 ANSWER 12 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)



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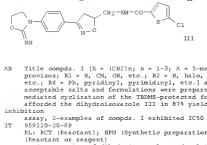


II

III

AB Title compds. I [X = (CR2)n; n = 1-3; A = 5-membered heteroaryl with provisos; R1 = H, CN, OH, etc.; R2 = H, halo, OH, etc.; R3 = H, halo, OH, etc.; R4 = Ph, pyridinyl, pyrimidinyl, etc.] and their pharmaceutically acceptable salts and formulations were prepared. For example, CH3SO3H mediated cyclization of the TBDMS-protected form of hydroxynitrile II afforded the dihydroisoxazole III in 87% yield. In a factor Xa inhibition assay, 2-examples of compds. I exhibited IC50 values of 1.4 and 7.9 nM.
IT 959130-20-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of dihydroisoxazoles and related compds. for treatment of thromboembolic diseases)
RN 959130-20-8 CAPLUS
CN Ethanone, 1-phenyl-, 2-(4-iodophenyl)hydrazone (CA INDEX NAME)

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD
(3 CITINGS)
REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L38 ANSWER 13 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2007:680603 CAPLUS
DOCUMENT NUMBER: 147:149746
TITLE: Method for testing specific activity of electron transfer system of activated sludge
INVENTOR(S): Yin, Jun; Tan, Xuejun; Zhang, Liguo; Tang, Li; Wang, Jianhui; Wang, Xuefeng
PATENT ASSIGNEE(S): Peop. Rep. China
SOURCE: Faming Zhuanli Shenqing Gongkai Shuomingshu, 8pp.
CODEN: CNXXEV
DOCUMENT TYPE: Patent
LANGUAGE: Chinese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

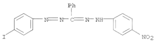
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CN 1982878	A	20070620	CN 2005-10119086	20051216
CN 1982878	B	20101201		
PRIORITY APPLN. INFO.:			CN 2005-10119086	20051216

AB A method for testing the specific activity of electron transfer system of activated sludge includes adding an electron acceptor into a medium, extracting a reduced state tetrazolium salt in a microbial cell, detecting the absorbance of tetrazolium salt, and calculating A test tube is used for measuring the dry weight of the sludge. 2-(P-iodophenyl)-3-(p-nitrophenyl)-5-phenyltetrazolium chloride is used as the electron acceptor. Methanol with low toxicity is used as extracting agent for extracting iodonitrotetrazolium formazan in microbial cell at room temperature (37°). The method can be used for testing the bioactivity of aerobic/anaerobic/denitrification sludge at room temperature The combination of dry weight measurement and microbial electron transfer detection can avoid the error from different concns. of mixed liquor and uneven sampling.

IT 7781-49-9, Iodonitrotetrazolium formazan
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(testing specific activity of electron transfer system of activated sludge)

RN 7781-49-9 CAPLUS

CN Methanone, [2-(4-iodophenyl)diazenyl]phenyl-, 2-(4-nitrophenyl)hydrazone (CA INDEX NAME)



L38 ANSWER 14 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2006:534927 CAPLUS
DOCUMENT NUMBER: 145:188782
TITLE: Synthesis and photophysical properties of a pyrazolino[60]fullerene with dimethylaniline connected by an acetylene linkage
AUTHOR(S): Gouloumis, Andreas; Oswald, Frederic; El-Khouly, Mohamed E.; Langa, Fernando; Araki, Yasuyuki; Ito, Osamu
CORPORATE SOURCE: Facultad de Ciencias del Medio Ambiente, Universidad de Castilla-La Mancha, Toledo, 45071, Spain
SOURCE: European Journal of Organic Chemistry (2006), (10), 2344-2351
CODEN: EJOCFK; ISSN: 1434-193X
PUBLISHER: Wiley-VCH Verlag GmbH & Co. KGaA
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 145:188782

AB A new triad based on pyrazolino[60]fullerene and a conjugated dimethylaniline group has been synthesized by a copper-free Sonogashira cross-coupling reaction using microwave irradiation as the source of energy. The electrochem. and photophys. properties of the triad were systematically investigated by techniques such as time-resolved fluorescence and transient absorption spectroscopy. Charge separation via the excited singlet state of the C60 moiety was confirmed in polar and nonpolar solvents and competes with triplet formation of the C60 moiety. The charge-separated state persisted for 91 ns. Such long lifetimes are characteristic of long distances between the radical anion of the pyrazolino[60]fullerene derivative and the radical cation of the dimethylaniline moiety.

IT 381676-44-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of [[(nitrophenyl)fullereno-pyrazolyl]phenyl]ethynyl]benzenemethanamine derivative and study of its electrochem. and photophys. properties)

RN 381676-44-4 CAPLUS

CN Benzaldehyde, 4-nitro-, 2-(4-iodophenyl)hydrazone (CA INDEX NAME)

OS.CITING REF COUNT: 10 THERE ARE 10 CAPLUS RECORDS THAT CITE THIS RECORD (10 CITINGS)
REFERENCE COUNT: 50 THERE ARE 50 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

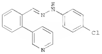
L38 ANSWER 15 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2006:269035 CAPLUS
DOCUMENT NUMBER: 144:311916
TITLE: Preparation of (hetero)aromatic hydrazones as β-secretase inhibitors
INVENTOR(S): Schindelholz, Benno; Schmid, Gerard; Brigo, Alessandro; Milas, Dragana; Garcia, Gabriel
PATENT ASSIGNEE(S): The Genetics Company, Inc., Switz.
SOURCE: PCT Int. Appl., 68 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
WO 2006029850	A1	20060323	WO 2005-EP9902		20050914
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW					
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM					
CA 2579472	A1	20060323	CA 2005-2579472		20050914
EP 1791818	A1	20070606	EP 2005-787258		20050914
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR					
JP 2008513364	T	20080501	JP 2007-530679		20050914
PRIORITY APPLN. INFO.:			EP 2004-21840	A	20040914
			EP 2004-22088	A	20040916
			WO 2005-EP9902	W	20050914

OTHER SOURCE(S): MARPAT 144:311916

GI



I

AB Z1R3C:NNHZ2 [R3 = H, Me, and hydroxyalkyl; Z1, Z2 = (substituted) Ph, naphthyl, pyridyl, pyrazolyl, pyrimidyl, pyrazidinyl, quinolinyl,

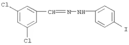
L38 ANSWER 15 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)

isoquinolinyl, coumarinyl, indolyl, thiazolyl, thienyl], were prepd. Several title compds. including (I) (general prepn. given) inhibited β-secretase with IC50 <50 μM.

IT 879404-27-0P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of (hetero)aromatic hydrazones as β-secretase inhibitors)

RN 879404-27-0 CAPLUS

CN Benzaldehyde, 3,5-dichloro-, 2-(4-iodophenyl)hydrazone (CA INDEX NAME)



OS.CITING REF COUNT: 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD (5 CITINGS)
REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L38 ANSWER 16 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2005:733134 CAPLUS
DOCUMENT NUMBER: 143:482228
TITLE: Suitability of Wastes from Olive-Oil Industry for Initial Reclamation of a Pb/Zn Mine Tailing
AUTHOR(S): Romero, E.; Benitez, E.; Nogales, R.
CORPORATE SOURCE: Estacion Experimental del Zaidin, C.S.I.C., Granada, 18080, Spain
SOURCE: Water, Air, & Soil Pollution (2005), 165(1-4), 153-165
CODEN: WAPLAC; ISSN: 0049-6979
PUBLISHER: Springer
DOCUMENT TYPE: Journal
LANGUAGE: English
AB An incubation experiment was conducted to evaluate the ameliorating role of 2 organic amendments-olive-mill solids wastes and compost from olive-mill solid wastes in the ecol. reclamation of a Pb/Zn mine tailing in southern Spain. Four enzymic activities (dehydrogenase, β-glucosidase, urease and phosphatase) and soluble and AB-DTPA extractable Pb and Zn and were periodically determined. High concns. of Pb (5704 mg/kg) and Zn (9407 mg/kg), mainly as insol. forms, were recorded in the Pb/Zn-mine tailing, as well as very low biochem. activity. Application of the compost from olive-mill solid waste stimulated microbial activity and the biogeochem. cycles into the mine tailing because of the initially increased dehydrogenase, β-glucosidase and urease activities, which tended to decline or remained constant during the incubation period. By contrast, these enzyme activities were scarcely affected by the incorporation of the olive-mill solid wastes because this olive-organic amendment contains extractable polyphenols (76 g/kg), which inhibit these enzyme activities. Phosphatase activity was enhanced by the application of both olive-organic amendments, especially when the olive-mill solid waste was added to the mine tailing. Anta. of soluble and AB-DTPA-extractable Pb and Zn in the mine tailing were increased by the application of the olive-mill solid waste, and to a lesser degree, by the compost from this olive waste. This fact could restrict the use of these olive-organic amendments as useful materials in reclamation of Pb/Zn mine tailings. Nevertheless, the increases of available Pb and Zn would represent an advantage where Pb/Zn mine tailings are reclaimed by phytoextn., effectively reducing the metal pollution in these nuking wastes.
IT 7781-49-9, Iodonitrotetrazolium formazan
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(suitability of olive-oil industry waste for reclamation of lead-zinc mine tailing)
RN 7781-49-9 CAPLUS
CN Methanone, [2-(4-iodophenyl)diazenyl]phenyl-, 2-(4-nitrophenyl)hydrazone (CA INDEX NAME)

L38 ANSWER 16 OF 108 CAPLUS (Continued)

OS.CITING REF COUNT: 12 THERE ARE 12 CAPLUS RECORDS THAT CITE THIS RECORD (12 CITINGS)
REFERENCE COUNT: 49 THERE ARE 49 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

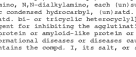
L38 ANSWER 17 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2004:857547 CAPLUS
DOCUMENT NUMBER: 141:350274
TITLE: Preparation of benzaldehyde or heterocycle carboxaldehyde hydrazone derivatives as inhibitors of agglutination and/or deposition of an amyloid protein or amyloid-like protein
INVENTOR(S): Kawagoe, Keiichi; Motoki, Kayoko; Odagiri, Takashi; Suzuki, Naoyuki; Chen, Chun-Jen; Mimura, Tetsuya
PATENT ASSIGNEE(S): Daiichi Pharmaceutical Co., Ltd., Japan
SOURCE: PCT Int. Appl., 236 pp.
CODEN: PIXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004087641	A1	20041014	WO 2004-JP4607	20040331
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2521056	A1	20041014	CA 2004-2521056	20040331
EP 1612204	A1	20060104	EP 2004-724752	20040331
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK				
US 20060276457	A1	20061207	US 2005-551414	20050930
PRIORITY APPLN. INFO.:			JP 2003-94257	A 20030331
			WO 2004-JP4607	W 20040331

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSTB DISPLAY FORMAT
OTHER SOURCE(S): MARPAT 141:350274
GI

AB Compds. represented by the general formula (I), salts thereof, or solvates of either [R1, R2 = H, alkyl, alkenyl, alkynyl, aralkyl; NR1, NR2, alkylamino, cyano, halo, haloalkyl; haloalkenyl, haloalkynyl, COOH, alkoxycarbonyl, CONR3, N-alkylcarbamoyl, N,N-dialkylcarbamoyl, N-hydroxyalkylcarbamoyl, each (un)substituted aryl, (un)saturated 5- to 7-membered heterocyclyl, (un)satd. bi- or tricyclic condensed heterocyclyl, arylalkenyl, (un)satd. heterocyclylalkenyl, or (un)satd. bi- or tricyclic condensed heterocyclylalkenyl; R3 = H, (un)substituted alkyl, acyl, alkoxycarbonyl; Ar = a divalent group derived from arom. hydrocarbon, (un)satd. 5- to 7-membered heterocyclic group, or (un)satd. bi- or tricyclic condensed heterocyclic group; X = a single bond, a single bond, each (un)substituted linear or branched C1-3 alkylene, C1-3 alkylene, or C1-3 alkynylene, CO; G = halo, haloalkyl, haloalkenyl, haloalkynyl, alkoxy, alkoxycarbonyl, N-alkylamino, N,N-dialkylamino, each (un)substituted (un)satd. bi- or tricyclic condensed hydrocarbyl, (un)satd. 5- to 7-membered heterocyclyl, or (un)satd. bi- or tricyclic heterocyclyl] are prepd. Also disclosed is (1) an agent for inhibiting the agglutination and/or deposition of an amyloid protein or amyloid-like protein or (2) a preventive and/or remedy for conformational diseases or diseases caused by amyloid accumulation, which contains the compd. I, its salt, or solvate thereof. In particular, disclosed is a preventive and/or remedy for Alzheimer's disease, Down's syndrome, Creutzfeldt-Jakob disease, type II diabetes, dialysis amyloidosis, AA amyloidosis, Gerstmann-Straussler-Scheinker (GSS) syndrome, Huckle-Wells syndrome, localized atrial amyloidosis, thyroid medullary carcinome, skin amyloidosis, localized tuberous amyloidosis, AL amyloidosis, AB amyloidosis, familial Mediterranean fever, Parkinson's disease, tauopathy, ALS, or CAG repeat disease. A radiodiagnostic agent comp. radionuclide-labeled, in particular radioactive iodine-labeled compd. I is also disclosed. Thus, 1.0 g 4-iosalol-5-ylphenylhydrazine and 0.61 g 4-pyridinecarboxaldehyde were heated in ethanol at reflux overnight to give, after recrystn. from ethanol, 1.03 g 4-pyridinecarboxaldehyde N-[4-iosalicyl-5-ylphenyl]hydrazone (II). It inhibited the formation of amyloid from amyloid β protein with IC50 of 2.94 and vs. 0.87 and 2.23 nM for Congo Red and 2-(1,1-dicyanopropenyl)-6-dimethylaminonaphthalene (DDNP), resp.
IT 478553-40-7P
RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(preparation of benzaldehyde or heterocycle carboxaldehyde hydrazone derivs. as inhibitors of agglutination and/or deposition of amyloid protein or amyloid-like protein)
RN 478553-40-7 CAPLUS
CN 4-Pyridinecarboxaldehyde, 2-(4-iodophenyl)hydrazone (CA INDEX NAME)

L38 ANSWER 17 OF 108 CAPLUS (Continued)

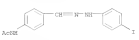


IT 675111-22-5P 679821-11-5P 774237-24-6P
774237-25-7P 774237-28-0P 774237-29-1P
774237-88-4P 774237-89-7P 774238-22-1P
774238-23-2P 774238-24-3P 774238-25-4P
774238-26-5P 774238-27-6P 774238-28-7P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU

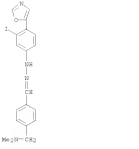
(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preps. of benzaldehyde or heterocycle carboxaldehyde hydrazone derivs. as inhibitors of agglutination and/or deposition of amyloid protein or amyloid-like protein)

RN 675111-22-5 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, 2-(4-iodophenyl)hydrazone (CA INDEX NAME)

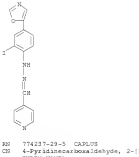
RN 679821-11-5 CAPLUS
CN Acetamide, N-[4-[[2-(4-iodophenyl)hydrazinylidene]methyl]phenyl]- (CA INDEX NAME)



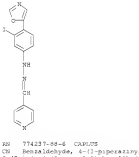
RN 774237-24-2 CAPLUS
CN Benzaldehyde, 4-[(dimethylamino)methyl]-, 2-[3-iodo-4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)



RN 774237-25-3 CAPLUS
CN Benzaldehyde, 4-(4-methyl-1-piperazinyl)-, 2-[3-iodo-4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)

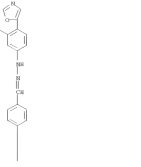


RN 774237-29-7 CAPLUS
CN 4-Pyridinecarboxaldehyde, 2-[3-iodo-4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)



RN 774237-88-6 CAPLUS
CN Benzaldehyde, 4-[2-pyperazinyl]-, 2-[3-iodo-4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)

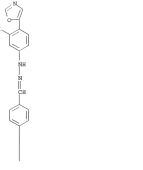
PAGE 1-A



PAGE 2-A

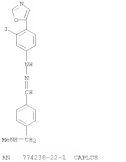
RN 774237-28-4 CAPLUS
CN 4-Pyridinecarboxaldehyde, 2-[2-iodo-4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)

PAGE 1-A



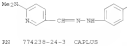
PAGE 2-A

RN 774237-89-7 CAPLUS
CN Benzaldehyde, 4-[(methylamino)methyl]-, 2-[3-iodo-4-(5-oxazolyl)phenyl]hydrazone (CA INDEX NAME)

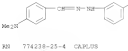


RN 774238-22-1 CAPLUS
CN 4-Pyridinecarboxaldehyde, 2-(3-iodophenyl)hydrazone (CA INDEX NAME)

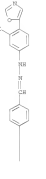
RN 774238-23-2 CAPLUS
CN 3-Pyridinecarboxaldehyde, 6-(dimethylamino)-, 2-(4-iodophenyl)hydrazone (CA INDEX NAME)



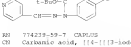
RN 774238-24-3 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, 2-(3-iodophenyl)hydrazone (CA INDEX NAME)



RN 774238-25-4 CAPLUS
CN 4-Pyridinecarboxaldehyde, 1,2,3,6-tetrahydro-1-(phenylmethyl)-,

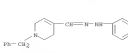


RN 774239-33-7 CAPLUS
CN Hydrazinecarboxylic acid, 1-(4-iodophenyl)-2-(4-pyridinylmethylene)-, 1,1-dimethylethyl ester (CA INDEX NAME)

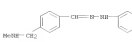


RN 774239-59-7 CAPLUS
CN Carbamic acid, [[4-[[[3-iodo-4-(5-oxazolyl)phenyl]hydrazono]methyl]phenyl]methyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

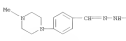
2-(4-iodophenyl)hydrazone (CA INDEX NAME)



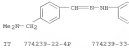
RN 774238-26-5 CAPLUS
CN Benzaldehyde, 4-[(methylamino)methyl]-, 2-(4-iodophenyl)hydrazone (CA INDEX NAME)



RN 774238-27-6 CAPLUS
CN Benzaldehyde, 4-(4-methyl-1-piperazinyl)-, 2-(4-iodophenyl)hydrazone (CA INDEX NAME)

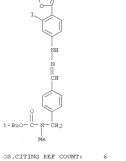


RN 774238-28-7 CAPLUS
CN Benzaldehyde, 4-[(dimethylamino)methyl]-, 2-(4-iodophenyl)hydrazone (CA INDEX NAME)



IT 774239-22-4P 774239-33-7P 774239-59-7P
RL: PCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of benzaldehyde or heterocycle carboxaldehyde hydrazone derivs. as inhibitors of agglutination and/or deposition of amyloid protein or amyloid-like protein)

RN 774239-22-4 CAPLUS
CN 1-Piperazinecarboxylic acid, 4-[4-[[2-(3-iodo-4-(5-oxazolyl)phenyl)hydrazinylidene]methyl]phenyl]-, 1,1-dimethylethyl ester (CA INDEX NAME)



OS.CITING REF COUNT: 6 THERE ARE 6 CAPLUS RECORDS THAT CITE THIS RECORD

(10 CITINGS)

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L38 ANSWER 18 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2004:589533 CAPLUS

DOCUMENT NUMBER: 141:140464

TITLE: N-(substituted arylmethyl)-4-(disubstituted methyl)piperidines and piperazines

INVENTOR(S): Ding, Ping; Henrie, Robert N., II; Cohen, Daniel H.; Lyga, John W.; Rosen, David S.; Theodoridis, George; Zhang, Qun; Yeager, Walter H.; Donovan, Stephen F.; Zhang, Steven Shunxiang; Shulman, Inna; Yu, Seong Jae; Wang, Gouzhi; Zhang, Y. Larry; Gopalsamy, Ariamala; Warkentin, Dennis L.; Rensner, Paul E.; Silverman, Ian R.; Cullen, Thomas G.

PATENT ASSIGNEE(S): FMC Corporation, USA

SOURCE: PCT Int. Appl., 105 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004060865	A2	20040722	WO 2003-US39046	20031208
WO 2004060865	A3	20041104		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2003296373	A1	20040729	AU 2003-296373	20031208
EP 1572668	A2	20050914	EP 2003-814673	20031208
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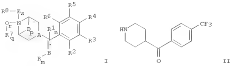
BR 2003016747	A	20051018	BR 2003-16747	20031208
CN 1729178	A	20060201	CN 2003-80106750	20031208
CN 100400519	C	20080709		
CN 1744895	A	20060308	CN 2003-80109445	20031208
CN 100384421	C	20080430		
JP 2006511621	T	20060406	JP 2005-508564	20031208
US 20060166962	A1	20060727	US 2003-538997	20031208
US 7365082	B2	20080429		
CN 101139340	A	20080312	CN 2007-10153751	20031208
TW 287544	B	20071001	TW 2003-135801	20031217
IN 2005DN02489	A	20061229	IN 2005-DN2489	20050609
IN 214111	A1	20080222		
IN 2005DN02485	A	20070427	IN 2005-DN2485	20050609
ZA 2005004870	A	20060426	ZA 2005-4870	20050614
ZA 2005004871	A	20060426	ZA 2005-4871	20050614
MX 2005006426	A	20050908	MX 2005-6426	20050615
IN 2008DN00416	A	20080215	IN 2008-DN416	20080115
IN 2008DN00413	A	20080801	IN 2008-DN413	20080115
IN 2008DN00417	A	20080801	IN 2008-DN417	20080115

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
IN 2008DN00418	A	20080801	IN 2008-DN418		20080115
IN 2008DN00419	A	20080801	IN 2008-DN419		20080115
IN 2008DN00414	A	20080815	IN 2008-DN414		20080115
IN 2008DN00415	A	20080815	IN 2008-DN415		20080115
PRIORITY APPLN. INFO.:			US 2002-434718P	P	20021218
			US 2003-495059P	P	20030814
			CN 2003-80109445	A3	20031208
			WO 2003-US39046	W	20031208
			IN 2005-DN2489	A3	20050609

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OTHER SOURCE(S): MARPAT 141:140464

GI

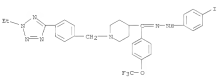


AB Title compds. I [m, n, q, r, s = 0-1; p = 0-3; A = CH, N forming a 6-membered azine ring selected from piperidine or piperazine; R2-6 = H, halo, alkyl, etc.; B = O; with provisions] are prepared. For instance, 4-bromobenzotrifluoride is transmetalated (THF, n-BuLi, -75 °) and treated with tert-Bu 4-[N-methoxy-N-methylcarbamoyl]piperidine-1-carboxylate to give tert-Bu 4-[(4-(trifluoromethyl)phenyl)carbonyl]piperidine-1-carboxylate. This intermediate is deprotected to give II. II gave 100% mortality and 100% growth inhibition of tobacco budworms.

IT 725231-25-4P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(N-(substituted arylmethyl)-4-(disubstituted methyl)piperidines and piperazines)

RN 725231-25-4 CAPLUS

CN Methanone, [1-[[4-(2-ethyl-2H-tetrazol-5-yl)phenyl]methyl]-4-piperidinyl][4-(trifluoromethoxy)phenyl]-, 2-(4-iodophenyl)hydrazone (CA INDEX NAME)



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L38 ANSWER 19 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2004:65845 CAPLUS

DOCUMENT NUMBER: 140:310994

TITLE: Electrochemical and spectroscopic studies on electron-transfer reaction between novel water-soluble tetrazolium salts and a superoxide ion

AUTHOR(S): Oritani, Tadato; Fukuhara, Nobutaka; Okajima, Takeyoshi; Kitamura, Fusao; Ohsaka, Takeo

CORPORATE SOURCE: Interdisciplinary Graduate School of Science and Engineering, Department of Electronic Chemistry, Tokyo Institute of Technology, Midori-ku, Yokohama, 226-8502, Japan

SOURCE: Inorganica Chimica Acta (2004), 357(2), 436-442
CODEN: ICHAA3; ISSN: 0020-1693

PUBLISHER: Elsevier Science B.V.

DOCUMENT TYPE: Journal

LANGUAGE: English

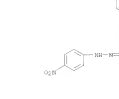
AB The electrochem. behavior of H2O-soluble tetrazoliums (WST) was studied by cyclic voltammetry. WST was reduced in a 2-step process. The 1st reduction peak at -0.20 V vs. Ag/AgCl corresponds to 1-electron reduction reaction and is independent of pH. The 2nd reduction peak at -0.47 V corresponds to 1-electron/one-proton process. Since the 1st reduction peak potential is more pos. than the formal potential of O2/O2- redox couple, WST can be reduced by O2 -. A possible mechanism is proposed for the reduction of WST dyes by O2-. Their reduced forms, which are called formazan, exhibited the absorbance maxima at 435-537 nm with large molar absorptivities ((1-2) × 104 M-1 cm-1). The electron-transfer reactions between O2- and WST dyes were quant. examined by stopped-flow spectroscopy using KO2/DMSO as O2- generating system and the 2nd-order rate consts. of the order of 104 M-1 s-1 were obtained. These values are comparable to that obtained for the conventional nitroblue tetrazolium (NBT).

IT 150849-53-9 195864-55-2
RL: FMU (Formation, unclassified); PRP (Properties); FORM (Formation, nonpreparative)
(formation in reduction tetrazolium salt with superoxide and disproportionation or by electrochem. reduction of tetrazolium salt with protonation in aqueous solution and absorption spectra)

RN 150849-53-9 CAPLUS

CN 1,3-Benzenedisulfonic acid, 4-[[2-(4-iodophenyl)diazenyl][2-(4-nitrophenyl)hydrazinylidene]methyl]-, sodium salt (1:1) (CA INDEX NAME)

L38 ANSWER 19 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)



● Na

RN 195064-55-2 CAPLUS
CN 1,3-Benzenedisulfonic acid, 4-[[2-[2,4-dinitrophenyl]hydrazinylidene][2-(4-iodophenyl)diazenyl]methyl]-, sodium salt (1:1) (CA INDEX NAME)

● Na

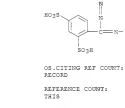
OS.CITING REF COUNT: 13 THERE ARE 13 CAPLUS RECORDS THAT CITE THIS RECORD (13 CITINGS)

REFERENCE COUNT: 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L38 ANSWER 20 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)

IT 634559-48-5
RL: ANU (Analytical use, unclassified); RCT (Reactant); RNST (Analytical study); RACT (Reactant or reagent)
(improved measuring method through oxidation-reduction reaction using formazan)

RN 634559-48-5 CAPLUS
CN 1,3-Benzenedisulfonic acid, 4-[[2-[2,4-dinitrophenyl]hydrazinylidene][2-(4-iodophenyl)diazenyl]methyl]- (CA INDEX NAME)



OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (6 CITINGS)

REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

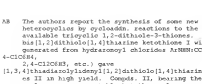
L38 ANSWER 20 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2003:991784 CAPLUS
DOCUMENT NUMBER: 140:25202
TITLE: Improved measuring method through oxidation-reduction reaction using formazan
INVENTOR(S): Yonehara, Satoshi; Ishimaru, Kaori
PATENT ASSIGNEE(S): Arkray, Inc., Japan
SOURCE: PCT Int. Appl., 32 pp.
CODEN: PIXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003094815	A1	20031120	WO 2003-JP5485	20030428
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2003235973	A1	20031222	AU 2003-235973	20030428
EP 1515143	A1	20050316	EP 2003-728903	20030428
EP 1515143	B1	20090107		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
CN 1659441	A	20050824	CN 2003-812998	20030428
CN 100335903	C	20070905		
AT 420367	T	20090115	AT 2003-728903	20030428
JP 4214277	B2	20090128	JP 2004-511835	20030428
US 20050202299	A1	20050915	US 2004-517415	20041213
US 7381539	B2	20080603		
PRIORITY APPLN. INFO.:			JP 2002-167764	A 20020607
			WO 2003-JP5485	W 20030428

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSSB DISPLAY FORMAT

AB A method for measuring an objective substance (e.g., glycosylated protein, glycosylated peptide, glycosylated amino acid) in a sample through an oxidation-reduction reaction (e.g., peroxidase reaction) and a reagent with which measurement values with excellent reliability are obtained. The method comprises adding a formazan compound to the sample prior to the oxidation-reduction reaction to eliminate the influence of any reducing substances contained in the sample, generating a reducing substance or an oxidizing substance (e.g., hydrogen peroxide) derived from the objective substance to be measured, measuring its quantity through the oxidation-reduction reaction, and determining the quantity of the objective substance to be measured from the measurement value. The formazan compound may be, for example, 1-(4-iodophenyl)-3-[2,4-disulfophenyl]-5-[2,4-dinitrophenyl]formazan.

L38 ANSWER 21 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2001:146189 CAPLUS
DOCUMENT NUMBER: 135:272990
TITLE: Synthesis of thiadiazole, dithietane, and imine derivatives of the [1,2]dithiolo[1,4]thiazine ring system
AUTHOR(S): Barriga, Susana; Fuertes, Pedro Marcos, Carlos F./; Miguel, Daniel; Rakitin, Oleg A.; Rees, Charles W.; Torroba, Tomas
CORPORATE SOURCE: Departamento de Quimica Organica Facultad de Veterinaria, Universidad de Extremadura, Caceres, 10071, Spain
SOURCE: Journal of Organic Chemistry (2001), 66(17), 5766-5771
CODEN: JOCEAH; ISSN: 0022-3263
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 135:272990
GI

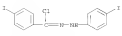


AB The authors report the synthesis of some new polysulfur-nitrogen heterocycles by cycloaddn. reactions to the thioketo group of readily available trioxalic 1,2-dithiole-3-thiones. This treatment of bis[1,2]dithiolo[1,4]thiazine ketothiones I with diaryl nitrile imines generated from hydrazonoyl chlorides ArNHN:CClAr (Ar = Ar1 = Ph, 4-ClC6H4, 2,4-Cl2C6H3, etc.) gave [1,3,4]thiadiazolylidene)[1,2]dithiolo[1,4]thiazin es II in high yield. Compds. II, bearing the same substituents in both aryl groups, were studied but the analogous compds., II (Ar = 4-O2NC6H4, Ar1 = Ph, 4-MeOC6H4) gave the bis[1,2]dithiolo[1,4]thiazine dione derivative of 1, probably by cycloreversion and hydrolysis during chromatog. Treatment of I, a bis[1,2]dithiolopyrrole ketothione, and its dithione with ethoxycarbonyl azide gave imines and a bisimine, resp., by an alternative fragmentation of the initial cycloadduct in which the 1,2-dithiole ring is retained. Reaction of I with TosN3C gave an imino-1,3-dithietane.

IT 362588-27-0
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of thiadiazole, dithietane, and imine derivs. by cycloaddn. of bisdithiolothiazine ketothione with hydrazonoyl chlorides and ethoxycarbonyl azide)

RN 362588-27-0 CAPLUS
CN Benzenecarbohydrazonoyl chloride, 4-iodo-N-(4-iodophenyl)- (CA INDEX NAME)

L38 ANSWER 21 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)



OS.CITING REF COUNT: 14 THERE ARE 14 CAPLUS RECORDS THAT CITE THIS RECORD (14 CITINGS)

REFERENCE COUNT: 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L38 ANSWER 22 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2000:296892 CAPLUS
DOCUMENT NUMBER: 132:308340
TITLE: Preparation of aryltriazolones as agrochemical fungicides.
INVENTOR(S): Brown, Richard James; Frazier, Deborah Ann; Howard, Michael Henry, Jr.; Koether, Gerard Michael
PATENT ASSIGNEE(S): E. I. Du Pont de Nemours & Co., USA
SOURCE: U.S., 66 pp., Cont.-in-part of U.S. Ser No. 442,433, abandoned.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6053352	A	20000502	US 1997-952399	19971113
WO 9636616	A1	19961121	WO 1996-US6574	19960508
W: AE, AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN				
RW: AT, BE, CH, DE, DK, EA, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9657350	A	19961129	AU 1996-57350	19960508
EP 825988	A1	19980304	EP 1996-915613	19960508
R: DE, ES, FR, GB, IT				
BR 9608756	A	19990706	BR 1996-8756	19960508
JP 2002511034	T	20020409	JP 1996-534897	19960508

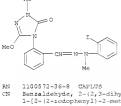
PRIORITY APPLN. INFO.: US 1995-442433 B2 19950517
US 1995-443295 A 19950517
US 1995-4183P P 19950922
WO 1996-US6574 W 19960508

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSSE DISPLAY FORMAT
OTHER SOURCE(S): MARPAT 132:308340
GI

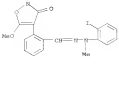
AB Title compds. [I; E = (substituted) 1,2-phenylene; A = O, S, N, NR5, CR14; G = C, N; when G = C, then A = O, S or NR5 and the floating double bond is attached to Ay W = O, S, NR, NR, WOR; A = alkyl; X = CH, SCH3, halo; R1 = alkyr, haloalkyl, alkenyl, haloalkenyl, alkynyl, haloalkynyl, cycloalkyl, alkylcarbonyl, alkoxycarbonyl; R2 = R, alkyl, haloalkyl, alkenyl, haloalkenyl, alkynyl, haloalkynyl, cycloalkyl, alkylcarbonyl, alkoxycarbonyl; GM, alkoxy, AmO; R3 = R, alkyl, haloalkyl, alkenyl, haloalkenyl, alkynyl, haloalkynyl, cycloalkyl, alkylcarbonyl, alkoxycarbonyl; R14 = H, halo, alkyl, haloalkyl, alkenyl, haloalkenyl, alkynyl, haloalkynyl, cycloalkyl; Y = NR15, CO, CHR15CO(R5)NR15, etc.; R15 = R, alkyl, cycloalkyl, (substituted) Ph, PhCH2, etc.; Z = (substituted) alkyl, alkenyl, alkynyl, cycloalkenyl, Ph, heterocyclyl, etc.], were prepd. 7?nx, 4-[2-bromomethylphenyl]-2,4-dihydro-5-methoxy-2-methyl-3H-1,2,4-triazol-3-one (prepn. given) was treated with 4'-chlorothiopropiophenone and POCl3 followed by stirring overnight and brief reflux to give [2-(1,5-dihydro-3-methoxy-1-methyl-5-oxo-4H-1,2,4-triazol-4-yl)phenyl]methyl 4-(4-chlorophenyl)propanimidothioate. Several 2 at 200 ppm gave complete control of Puccinia recondita on wheat seedlings.

IT 1100551-47-4 1100572-36-8
RL: PREP (Prophetic)
(Preparation of aryltriazolones as agrochemical fungicides.)

RN 1100551-47-4 CAPLUS
CN Benzaldehyde, 2-(1,5-dihydro-3-methoxy-1-methyl-5-oxo-4H-1,2,4-triazol-4-yl)-, 1-[2-(2-iodophenyl)-2-methylhydrazone] (CA INDEX NAME)



RN 1100572-36-8 CAPLUS
CN Benzaldehyde, 2-(2,3-dihydro-5-methoxy-2-methyl-3-oxo-4-isoxazolyl)-, 1-[2-(2-iodophenyl)-2-methylhydrazone] (CA INDEX NAME)



L38 ANSWER 22 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)

OS.CITING REF COUNT: 8 THERE ARE 8 CAPLUS RECORDS THAT CITE THIS RECORD (8 CITINGS)

REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L38 ANSWER 23 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1998:636345 CAPLUS
DOCUMENT NUMBER: 129:149660
ORIGINAL REFERENCE NO.: 129:30267a
TITLE: Measurement of dehydrogenase activity in acid soils rich in organic matter
AUTHOR(S): Carnina, F.; Trasar-Cepeda, C.; Gil-Sotres, F.; Leirós, C.
CORPORATE SOURCE: Departamento Bioquímica Suelo, CSIC, Instituto Investigaciones Agrobiológicas Galicia, Santiago de Compostela, 15080, Spain
SOURCE: Soil Biology & Biochemistry (1998), 30(8/9), 1025-1031
CODEN: SBIBAS; ISSN: 0038-0717
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Dehydrogenase activity can be considered to be a good measure of microbial oxidative activity in soils. It is usually determined by measuring the amount of an artificial electron acceptor reduced by microbial activity, such as a soluble tetrazolium salt with a red colored reduced form (a formazan) that can be determined colorimetrically following extraction with a suitable solvent. In an earlier study of acid organic-matter rich forest soils of Galicia (N.W. Spain), measured dehydrogenase activities were low, at variance with respiratory activity data indicating high biol. activity. To investigate the possibility that these low dehydrogenase activities were underestimated due to adsorption of the formazan, the interaction of six soils with iodonitrotetrazolium formazan (INTF) was studied. At the same time, the capacities of two extractants, methanol and 1:1 dimethylformamide-ethanol (DMF-ethanol), to extract INTF were compared. This, INTF is adsorbed by the soils studied with an intensity that closely correlates with soil carbon content, and that dehydrogenase activity is thus underestimated to a different degree for each soil. A mixture of 1:1 DMF-ethanol was more effective than methanol in extracting INTF, thereby improving ests. of dehydrogenase activity. Correction for the effects of INTF adsorption could be achieved by using reference stds. containing soil to construct a sep. calibration curve for each soil. These stds. were prepared by incorporating different concns. of INTF with the soil under the same conditions used for determination of the dehydrogenase activity. The use of DMF-ethanol and reference stds. containing soil is thus recommended for determination of dehydrogenase activity at least soils with similar properties to those studied here.
IT 7781-49-9, Iodonitrotetrazolium formazan
RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses)
(in colorimetric determination of dehydrogenase activity in acid soils rich in organic matter)
RN 7781-49-9 CAPLUS

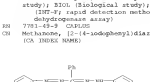
L38 ANSWER 24 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1998:250629 CAPLUS
DOCUMENT NUMBER: 129:25626
ORIGINAL REFERENCE NO.: 129:5407a,5410a
TITLE: Long-term starvation survival of a thermophilic sulfidogen consortium
AUTHOR(S): Biss, Catherine J.; Davey, R. Anthony; Lappin-Scott, Hilary M.
CORPORATE SOURCE: Dep. Biol. Sciences, Univ. Exeter, Exeter, UK
SOURCE: Geomicrobiology Journal (1998), 15(1), 29-36
CODEN: GEOJDQ; ISSN: 0149-0451
PUBLISHER: Taylor & Francis Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
AB A bacterial consortium containing thermophilic sulfidogens was obtained from filtration of produced fluids from a North Sea oil production facility. It was subjected to two distinct starvation regimes considered to be representative of those that might be experienced by such organisms surviving either (a) in open seawater prior to injection into the formation with secondary recovery fluids, or (b) in secondary recovery water-flooded deep in the reservoir. Metabolic activity measurements and resuscitation data together with SEM indicate survival for 21 mo with no available carbon source. Survival was measured by the starved cells' ability to redrive intracellularly the metabolic indicator INT to INT-formazan. By this method, starvation survival was demonstrated in all samples tested over the exptl. period (up to 21 mo). The indication of such ability was not consistently accompanied by resuscitation and growth in media previously used for culture maintenance and propagation.
IT 7781-49-9
RL: BAC (Biological study, unclassified); BIOL (Biological study)
(long-term starvation survival of thermophilic sulfidogen consortium)
RN 7781-49-9 CAPLUS
CN Methazone, [2-(4-iodophenyl)diazenyl]phenyl-, 2-(4-nitrophenyl)hydrazone (CA INDEX NAME)

REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

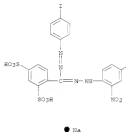
L38 ANSWER 23 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)
CN Methazone, [2-(4-iodophenyl)diazenyl]phenyl-, 2-(4-nitrophenyl)hydrazone (CA INDEX NAME)

GS.CITING REF COUNT: 26 THERE ARE 26 CAPLUS RECORDS THAT CITE THIS RECORD (26 CITINGS)
REFERENCE COUNT: 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

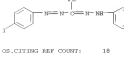
L38 ANSWER 25 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1998:218524 CAPLUS
DOCUMENT NUMBER: 128:292313
ORIGINAL REFERENCE NO.: 128:57839a,57842a
TITLE: A rapid detection method of nitrifying bacteria using an INT dehydrogenase assay
AUTHOR(S): Okabe, Satoshi; Sakai, Naomi; Watanabe, Yoshinasa
CORPORATE SOURCE: Dep. Urban Environ. Eng., Fac. Eng., Hokkaido Univ., Sapporo, 060-0813, Japan
SOURCE: Mizu Kankyo Gakkaishi (1998), 21(2), 88-97
CODEN: MKGKEY; ISSN: 0916-8958
PUBLISHER: Nippon Mizu Kankyo Gakkai
DOCUMENT TYPE: Journal
LANGUAGE: Japanese
AB A new enumeration method for nitrifying bacteria was developed using the 2-(p-iodophenyl)-3-(p-nitrophenyl)-5-phenyltetrazolium chloride (INT) dehydrogenase assay with specific inhibitors for ammonia- and nitrite-oxidizing bacteria. This technique was firstly applied to artificial mixed cultures of Nitrosomonas europaea, Nitrobacter winogradskyi and Pseudomonas fluorescens and then to environmental mixed culture samples to evaluate the validity and sensitivity of this method. Detection efficiency of nitrifying bacteria by this method was more than 1 order of magnitude and 1.apprx.2 orders of magnitude higher than that of the most probable number (MPN) method for the pure culture samples and environmental mixed culture samples, resp. Since the INT dehydrogenase assay counts only metabolically active bacteria, the nos. of NH4- and NO2-oxidizing bacteria determined by this method were directly proportional to ammonia and nitrite oxidation rates. Furthermore, this INT dehydrogenase method was applied to biofilm samples for in situ identification of nitrifying bacteria. Fractions of nitrifying bacteria in the biofilm were more than 1-3 orders of magnitude higher than those determined by the MPN method, whereas the fractions were comparable with those determined by the fluorescent in situ hybridization (FISH) with 16S rDNA-targeted oligonucleotide probes. Therefore, it could be summarized that this newly developed INT dehydrogenase method was more rapid, sensitive and reliable over the conventional MPN method for environmental samples and could be applied in situ identification of nitrifying bacteria in biofilms.
IT 7781-49-9, INT-F
RL: ANST (Analytic); BSU (Biosynthetic preparation); ANST (Analytical study); BIOL (Biological study); PREP (Preparation)
(INT-F; rapid detection method of nitrifying bacteria using INT dehydrogenase assay)
RN 7781-49-9 CAPLUS
CN Methazone, [2-(4-iodophenyl)diazenyl]phenyl-, 2-(4-nitrophenyl)hydrazone (CA INDEX NAME)



ACCESSION NUMBER: 1997:597783 CAPLUS
DOCUMENT NUMBER: 127:245042
ORIGINAL REFERENCE NO.: 127:47785a,47786a
TITLE: Colorimetric determination of serum cholesterol with newly synthesized tetrazolium salts produces a highly water-soluble formazan dye
AUTHOR(S): Kayamori, Yuzo; Katayama, Yoshiaki; Matsuyama, Tatsuo; Urata, Takeyoshi
CORPORATE SOURCE: Dep. Clin. Chem., Natl. Cardiovasc. Cent., Suita, 565, Japan
SOURCE: Seibutsu Shiryo Bunseki (1996), 19(3), 163-174
CODEN: SEBNEL; ISSN: 0911-5749
PUBLISHER: Seibutsu Shiryo Bunseki Kyokkai
DOCUMENT TYPE: Journal
LANGUAGE: Japanese
AB We describe an enzymic method for measuring serum cholesterol with newly synthesized tetrazolium salts that produce a highly water-soluble formazan dye. Reduction of 2 tetrazolium salts, WST-3 [2-(4-iodophenyl)-3-(2,4-dinitrophenyl)-5-(2,4-disulfophenyl)-2H-tetrazolium monosodium salt] and WST-4 [(2-benzothiazolyl)-3-(4-carboxy-2-methoxyphenyl)-5-[4-(2-sulfoethyl carbamoyl)phenyl]-2H tetrazolium sodium salt]), with NADH produced by cholesterol esterase and cholesterol dehydrogenase reaction for cholesterol are mediated by an electron carrier, 1-methoxy PMS. The observed absorbances for the formazan dyes produced from WST-3 and WST-4 are at 440 and 550 nm, resp. The increase in dye concentration is proportional to the amount of serum cholesterol. We present data showing that the method is highly sensitive, rapid, precise, and suitable for automation.
IT 19584-55-2P
RL: ANS (Analytical reagent use); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation); USES (Uses)
(serum cholesterol enzymic-colorimetric determination with tetrazolium salts)
RN 19584-55-2 CAPLUS
CN 1,3-Benzenedisulfonic acid, 4-[[2-(2,4-dinitrophenyl)hydrazinylidene][2-(4-iodophenyl)diazenyl]methyl]-, sodium salt (1:1) (CA INDEX NAME)



ACCESSION NUMBER: 1996:159800 CAPLUS
DOCUMENT NUMBER: 124:283406
ORIGINAL REFERENCE NO.: 124:52367a,52370a
TITLE: Effects of substrates and phosphate on INT [2-(4-Iodophenyl)-3-(4-nitrophenyl)-5-phenyl tetrazolium chloride] and CTC (5-cyano-2,5-ditolyl tetrazolium chloride) reduction in Escherichia coli
AUTHOR(S): Smith, J. J.; McFeters, G. A.
CORPORATE SOURCE: Department Microbiology, Montana State University, Bozeman, MT, 59717, USA
SOURCE: Journal of Applied Bacteriology (1996), 80(2), 209-15
CODEN: JABAAJ; ISSN: 0021-8847
PUBLISHER: Blackwell
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The effects of substrates of primary aerobic dehydrogenases and inorg. phosphate on aerobic INT and CTC reduction in E. coli were examined. In general, INT produced less formazan than CTC, but INT (+) cell counts remained near values of CTC (+) cells. INT and CTC (+) cell nos. were higher than plate counts on BJA medium using succinate, formate, lactate, cassamino acids, glucose, glycerol (INT only) and no substrate. Formate resulted in the greatest amount of INT and CTC formazan. Reduction of both INT and CTC was inhibited above 10 mmol/L phosphate, and this appeared to be related to decreased rates of O2 consumption. Formation of fluorescent CTC (+), but not INT (+) cells was also inhibited in a concntration-dependent manner by phosphate above 10 mmol/L. From light microscopic observations it appeared CTC formed increasing amts. of poorly or nonfluorescent formazan with increasing phosphate. Therefore, use of phosphate buffer in excess of 10 mmol/L may not be appropriate in CTC and INT reduction assays.
IT 7781-69-9
RL: BSU (Biological study, unclassified); MFM (Metabolic formation); BIOL (Biological study); FORM (Formation, nonpreparative)
(substrates and phosphate effects on CTC and INT reduction assays in Escherichia coli)
RN 7781-69-9 CAPLUS
CN Methanone, [2-(4-iodophenyl)diazenyl]phenyl-, 2-(4-nitrophenyl)hydrazone (CA INDEX NAME)



OS.CITING REF COUNT: 18 THERE ARE 18 CAPLUS RECORDS THAT CITE THIS RECORD (18 CITINGS)

L38 ANSWER 28 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1995:621696 CAPLUS
DOCUMENT NUMBER: 123:93079
ORIGINAL REFERENCE NO.: 123:6139a,6122a
TITLE: Preparation of novel water-soluble 2-(2,6-dichlorophenyl)-4,5-diphenyltetrazolium compounds as reagents for determination of dehydrogenase
INVENTOR(S): Ishara, Muretaka; Shiga, Tadarobu; Sasamoto, Kazuni
PATENT ASSIGNEE(S): Dojin Kagaku Kenkyusho KK, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

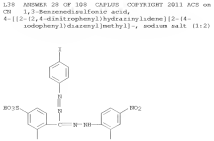
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 07070962	A	19950314	JP 1993-239253	19930901
JP 2531436	B2	19970219		
PRIORITY APPLN. INFO.:			JP 1993-239253	19930901

OTHER SOURCE(S): MARPAT 123:93079
GI

' STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT '

AB The title compds. [I; R1, R2 = H, NO2; M = alkali metal or NR4) are prepared
by a method for determination of dehydrogenase uses said water-soluble tetrazolium
compound I. These compds. I are excellent H-acceptors, form formazan by reaction with dehydrogenase, and are useful for determination of dehydrogenase by
measuring the absorption of the formed formazans which are water-soluble and
do not precipitate or adhere to an automated analyzer. Thus, 2,4-dinitrophenylhydrazine and 4-formyl-1,3-benzenedisulfonic acid were suspended in MeOH and refluxed for 4 h to give a hydrazone (II) (69% yield) which was dissolved in HCO and coupled with the diazotized p-iodoaniline to give a formazan [III] (67% yield). III was dissolved in MeOH and treated with 8N nitrite and concentrated HCl with stirring over night
to give a title compound I (R1 = R2 = NO2, M = Na). The latter compound was
reacted with NADH in a buffer containing 1-methoxy-5-methylphenadinium methylsulfate and the absorbency was measured at 453 and 580 nm before and
after adding aqueous NaOH. By plotting the absorbency and the concentration of NADH,
a linear working curve was obtained.
IT 16161-44-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and oxidative cyclization to tetrazolium compound)
RN 16161-44-3 CAPLUS

L38 ANSWER 28 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)
CN 1,3-Benzenedisulfonic acid, 4-[(2-[2,4-dinitrophenyl]hydrazinylidene)[2-(4-iodophenyl)diazenyl]methyl]-, sodium salt (1:2) (CA INDEX NAME)



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD
(2 CITINGS)

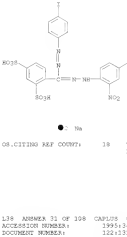
L38 ANSWER 29 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1995:495797 CAPLUS
DOCUMENT NUMBER: 122:273375
ORIGINAL REFERENCE NO.: 122:49709a,49712a
TITLE: The role of glycerol in the nutrition of halophilic archaeal communities: a study of respiratory electron transport
AUTHOR(S): Oren, Aharon
CORPORATE SOURCE: Division of Microbial and Molecular Ecology, The Alexander Silberman Institute of Life Sciences, and The Moshe Shilo Center for Marine Biogeochemistry, The
Hebrew University of Jerusalem, Jerusalem, 91904, Israel
SOURCE: FEMS Microbiology Ecology (1995), 16(4), 281-90
CODEN: FMECEX; ISSN: 0168-6496
PUBLISHER: Elsevier
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Respiratory electron transport activity in the Dead Sea and saltern crystallizer ponds, hypersaline environments inhabited by dense communities of halophilic archaea and unicellular green algae of the genus
Dunaliella, was assayed by measuring reduction of 2-(p-iodophenyl)-3-(p-nitrophenyl)-5-phenyltetrazolium chloride (INT) to INT-formazan. Typical rates obtained were on the order of 5.5-37.7 nmol INT reduced h-1 per 10E cells at 35°. In Dead Sea water samples, respiratory activity was stimulated >2-fold by addition of glycerol, but not
by any other C compds. tested, including sugars, organic acids, and amino acids, or by addition of inorg. nutrients. Stimulation by glycerol had a half-saturation constant of 0.75 mM. A similar respiratory activity was also
observed when Dead Sea water samples were diluted with distilled water and
incubated in light. As Dunaliella cells did not reduce INT, it is suggested that photosynthetically produced glycerol leaking from algae is the preferred C and energy source for development of halophilic archaea in
hypersaline environments. In saltern crystallizer pond samples, stimulation of INT reduction by glycerol was much less pronounced, probably
because the community was less severely C-limited.
IT 778-49-9
RL: BSU (Biological study, unclassified); MTH (Metabolic formation); BIOL (Biological study); FORM (Formation, nonpreparative)
(glycerol effect on INT reduction and respiratory electron transport in
halophilic archaeal communities of Dead Sea and Kilat salt brines)
RN 778-49-9 CAPLUS
CN Methanone, [2-(4-iodophenyl)diazenyl]phenyl-, 2-(4-nitrophenyl)hydrazone (CA INDEX NAME)

L38 ANSWER 29 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)

OS.CITING REF COUNT: 12 THERE ARE 12 CAPLUS RECORDS THAT CITE THIS RECORD (12 CITINGS)

L38 ANSWER 30 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 1995:349439 CAPLUS
DOCUMENT NUMBER: 122:187499
ORIGINAL REFERENCE NO.: 122:34347a,34350a
TITLE: Novel disulfonated tetrazolium salt that can be reduced to a water-soluble formazan and its application to the assay of lactate dehydrogenase
AUTHOR(S): Ishiyama, Munetaka; Sasamoto, Kazumi; Shiga, Masanobu; Ohkura, Yusuke; Ueno, Kenyu; Nishiyama, Katsuhiko; Yamiguchi, Isao
CORPORATE SOURCE: Dojindo Laboratories, Kumamoto, 963-22, Japan
SOURCE: Analyst (Cambridge, United Kingdom) (1995), 120(1), 113-16
CODEN: ANALAO; ISSN: 0003-2654
PUBLISHER: Royal Society of Chemistry
DOCUMENT TYPE: Journal
LANGUAGE: English
AB A new tetrazolium salt, 4-[3-[4-iodophenyl]-2-(2,4-dinitrophenyl)-2H-5-tetrazolio]-1,3-benzenedisulfonate, sodium salt, that produces a highly water-soluble formazan dye upon reduction by NADH was synthesized. The reduction of the compound by NADH at a neutral pH is fast owing to its small reduction potential. The applicability of the compound to the assay of lactate dehydrogenase is described.
IT 16141-74-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of a disulfonated tetrazolium salt and its application to the assay of lactate dehydrogenase)
RN 16141-74-3 CAPLUS
CN 1,3-Benzenedisulfonic acid, 4-[2-(2,4-dinitrophenyl)hydrazinylidene](2-(4-iodophenyl)diazenyl]methyl), sodium salt (1:2) (CA INDEX NAME)



● Na

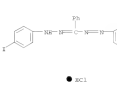
OS.CITING REF COUNT: 18 THERE ARE 18 CAPLUS RECORDS THAT CITE THIS RECORD (18 CITINGS)

L38 ANSWER 31 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 1995:314975 CAPLUS
DOCUMENT NUMBER: 122:103945
ORIGINAL REFERENCE NO.: 122:20497a,20610a
TITLE: Comparison and improvement of methods for determining soil dehydrogenase activity by using triphenyltetrazolium chloride and iodonitrotetrazolium chloride
AUTHOR(S): Friedel, J. K.; Moelter, K.; Fischer, W.R.
CORPORATE SOURCE: Institut Bodenkunde und Standortslehre, Universitaet Hohenheim, Stuttgart, D-70593, Germany
SOURCE: Biology and Fertility of Soils (1994), 18(4), 291-6
CODEN: BFSOLE; ISSN: 0178-2762
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The triphenyltetrazolium chloride (TTC) method described by Thalmann (1968) and the iodonitrotetrazolium chloride (INT) method described by Spethelfer-Nagata and Thalmann (1992), used for measuring soil dehydrogenase activity, have been modified to overcome some methodical short-comings. Absorption maximum of 485 nm for triphenylformazan dissolved in acetone, 490 nm for iodonitrotetrazolium formazan (INTF) dissolved in TEF and 455 nm for INTF dissolved in DMF are recommended for measuring wavelengths. Extracting triphenylformazan twice with acetone is less toxic and proved to be at least as efficient as extraction with a mixture of 90% acetone and 10% CCl4 (Thalmann 1968 method). TEF and DMF were equally good in extracting INTF from soils, but the former was less toxic. Anaerobic incubation resulted in the formation of higher amts. of triphenylformazan and INTF as well as reduced standard error. Both TTC and INT reduction showed high reproducibility and good differentiation of the microbial activity of six soils. For several reasons (more easily determined substrate dose depending on different soil types, better reduction, shorter incubation time), INT reduction seems to be a more suitable method of measuring soil microbial activity than TTC reduction
IT 7781-49-8, Iodonitrotetrazolium formazan
RL: ANU (Analytical use, unclassified); PRP (Properties); ANST (Analytical study)
(in determination of soil dehydrogenase activity by iodonitrotetrazolium chloride)
RN 7781-49-8 CAPLUS
CN Hydrazone, (2-(4-iodophenyl)diazenyl]phenyl-, 2-(4-nitrophenyl)hydrazone (CA INDEX NAME)

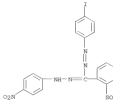
OS.CITING REF COUNT: 11 THERE ARE 11 CAPLUS RECORDS THAT CITE THIS RECORD (11 CITINGS)

L38 ANSWER 32 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1994:216441 CAPLUS
DOCUMENT NUMBER: 120:216441
ORIGINAL REFERENCE NO.: 120:39397a,39400a
TITLE: The role of oxygen in the reduction of tetrazolium salts with NADH mediated by 5-methylphenazinium methyl sulfate. An EPR and voltammetric study
AUTHOR(S): Carloni, P.; Greci, L.; Maurelli, E.; Stipa, P.; Wozniak, M.; Marrosu, G.; Petrucci, R.; Tozzi, A.
CORPORATE SOURCE: Dip. Sci. Mater. Terra, Univ. Ancona, Ancona, I-60131, Italy
SOURCE: Research on Chemical Intermediates (1993), 19(7), 643-56
CODEN: RCINEX; ISSN: 0922-6168
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The reduction of tetrazolium salts with NADH in the presence of catalytic amts. of 5-methylphenazinium Me sulfate (I) was studied, and the influence of oxygen on the system was considered. The redox potentials of all the investigated compds., kinetic measurements, and application of Marcus theory confirmed that I and tetrazolium ions are reduced by NADH through an inner-sphere mechanism. The EPR investigations led to the detection of all possible radical species coming from I and tetrazolium ions and are in agreement with a mechanism which excludes any role of oxygen in the system.
RXLE/I/tetrazolium for the formation of formazan.
IT 154192-71-1P
RL: PREP (Preparation)
(formation in reduction of tetrazolium salt)
RN 154192-71-1 CAPLUS
CN Methanone, [2-(4-nitrophenyl)diazenyl]phenyl-, 2-(4-iodophenyl)hydrazone, hydrochloride (1:1) (CA INDEX NAME)



● xcl

L38 ANSWER 33 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1993:605455 CAPLUS
DOCUMENT NUMBER: 119:205455
ORIGINAL REFERENCE NO.: 119:36622a,36626a
TITLE: A new sulfonated tetrazolium salt that produces a highly water-soluble formazan dye
AUTHOR(S): Ishiyama, Munetaka; Shiga, Masanobu; Sasamoto, Kazuo; Mizoguchi, Mahoto; He, Pin Gang
CORPORATE SOURCE: Doyindo Labs., Kumamoto, 861-22, Japan
SOURCE: Chemical & Pharmaceutical Bulletin (1993), 41(6), 1118-22
CODEN: CPBTAL; ISSN: 0009-2363
DOCUMENT TYPE: Journal
LANGUAGE: English
AB A new tetrazolium compound, di-Na 4-[3-(4-iodophenyl)-2-(4-nitrophenyl)-2H-5-tetrazolio]-1,3-benzenedisulfonate (I), which produced a highly water-soluble formazan dye, due to the presence of two sulfonate groups, was synthesized and its potential utility evaluated in assays of NADH and cell proliferation. I proved to have a sensitivity similar to that of 2,5-bis(2-methoxy-4-nitro-5-sulfophenyl)-5-[(phenylamino)carbonyl]-2H-tetrazolium hydroxide (II) in the assay of NADH and was also useful as an indicator of cell viability, with less cytotoxicity than II, in the proliferation assay using P388 cell lines.
IT 150849-53-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and cyclization of)
RN 150849-53-9 CAPLUS
CN 1,3-Benzenedisulfonic acid, 4-[[2-(4-iodophenyl)diazenyl][2-(4-nitrophenyl)hydrazinylidene]methyl]-, sodium salt (1:2) (CA INDEX NAME)



● 2Na

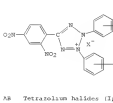
OS.CITING REF COUNT: 256 THERE ARE 256 CAPLUS RECORDS THAT CITE THIS RECORD (256 CITINGS)

L38 ANSWER 33 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)

L38 ANSWER 34 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1992:587817 CAPLUS
DOCUMENT NUMBER: 117:187817
ORIGINAL REFERENCE NO.: 117:32331a,32324a
TITLE: Tetrazolium halide compounds, their preparation and use in histochemical staining
INVENTOR(S): Bright, David J.; Nagubandi, Sreeramulu; Arvanaghi, Masoud
PATENT ASSIGNEE(S): Fisher Scientific Co., USA
SOURCE: U.S., 4 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

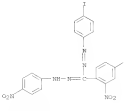
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5116732	A	19920526	US 1989-405754	19890911
PRIORITY APPLN. INFO.:			US 1989-405754	19890911

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): MARPAT 117:187817
GI



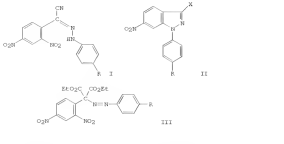
AB Tetrazolium halides (I; R2, R3 = H, halo, nitro; X = Br, Cl, I; having 2,4-dinitrophenyl at the 5-position on the tetrazolium ring are prepared which are more readily reduced to the formazan than the corresponding 5h-substituted compds. for staining of tissues. Thus, 2,4-dinitrobenzaldehyde p-nitrophenylhydrazone reacted with 4-iodophenyldiazonium chloride to form a formazan, which further reacted with N-bromosuccinimide to produce 2-(4-iodophenyl)-2-(4-nitrophenyl)-5-(2,4-dinitrophenyl)tetrazolium bromide (II). Spots of biotin-labeled Ig or DNA immobilized on nitrocellulose membranes were localized with alkaline phosphatase-labeled avidin and visualized with a mixture of 5-bromo-4-chloro-3-indolyl phosphate (substrate) and II; the color could be eluted with 95% EtOH for spectrophotometric quantitation at 443 nm.
IT 143458-71-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and conversion to tetrazolium bromide derivative)
RN 143458-71-3 CAPLUS
CN Methanone, (2,4-dinitrophenyl)[2-(4-iodophenyl)diazenyl]-, 2-(4-nitrophenyl)hydrazone (CA INDEX NAME)

L38 ANSWER 34 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)



REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L38 ANSWER 35 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1992:531119 CAPLUS
DOCUMENT NUMBER: 117:131119
ORIGINAL REFERENCE NO.: 117:22767a,22770a
TITLE: Cyclization reactions of hydrazones. XXIII. Synthesis of some 1-aryl-4-nitroindazole-3-carbonitriles
AUTHOR(S): Stejskalova, Eva; Slouka, Jan
CORPORATE SOURCE: Anal. Org. Chem. Inst., Palacky Univ., Olomouc, 771 46, Czech.
SOURCE: Acta Universitatis Palackianae Olomucensis, Facultas Rerum Naturalium (1991), 102(Chem. 30), 145-54
CODEN: AOURAU; ISSN: 0473-9065
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 117:131119
GI



AB (Arylhydrazono)-2,4-dinitrophenylacetonitriles I (R = H, halo) were prepared by coupling diazonium salts of anilines with Et (2,4-dinitrophenyl)cyanoacetate. I were converted to the title carbonitriles II (X = CN) by alkali cyclization. II (X = CN) were hydrolyzed to the corresponding acids II (X = COOH). By coupling of diazonium salts with di-Et (2,4-dinitrophenyl)malonate, (arylazo)(dinitrophenyl)malonates III were obtained.
IT 143335-15-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and cyclization of)
RN 143335-15-3 CAPLUS
CN Benzeneacetonitrile, α-[(4-iodophenyl)hydrazono]-2,4-dinitro- (9CI) (CA INDEX NAME)

L38 ANSWER 35 OF 108 CAPLUS (Continued)

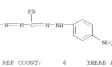
OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L38 ANSWER 36 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1991:538190 CAPLUS
DOCUMENT NUMBER: 115:138190
ORIGINAL REFERENCE NO.: 115:23691a,23694a
TITLE: Reducible dye 2-(p-iodophenyl)-3-(p-nitrophenyl)-5-(phenyl)-2H-tetrazolium chloride (INT) for use in aquatic toxicology: notes on chemical structure, electrochemistry, and toxicity
AUTHOR(S): Cataldo, W. James, III; Gale, Robert J.; Wong, Roberto L.; Bender, Michael E.
CORPORATE SOURCE: Virginia Inst. Mar. Sci., Coll. William and Mary, Gloucester Point, VA, 23062, USA
SOURCE: ASTM Special Technical Publication (1990), 1096(Aquat. Toxicol. Risk Assess.; 13th Vol.), 222-36
CODEN: ASTTAB; ISBN: 0066-0558
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Studies of the 2-(p-iodophenyl)-3-(p-nitrophenyl)-5-phenyl-2H-tetrazolium chloride (I) chemical structure and aqueous electrochem. at Hg, C, and Pt electrodes were conducted to address conceptual difficulties in the chemical literature and questions arising from the behavior of I in bioassay systems. The data presented includes NMR spectra and consistent chemical structures for I, 1-formazan, and an extract from I-treated Escherichia coli cells. Results from normal and differential pulse polarog., cyclic voltammetry, and spectrochem. determination of min. potentials of I reduction on Pt are reported and given mechanistic interpretations. The results of exptl. with I on C and Pt electrodes suggested interfering electrode reactions involving H. An expanded reaction scheme was proposed based on these observations. Preliminary mutagenicity testing on I, and its reduction products was conducted using the Ames/Salmonella assay and mutagenic assay results presented.
IT 136196-46-2P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, by reductive ring-opening reaction of (iodophenyl)(nitrophenyl)phyltetrazolium chloride)
RN 136196-46-8 CAPLUS
CN Methanone, [2-(4-nitrophenyl)diazenyl]phenyl-, 2-(4-iodophenyl)hydrazone (CA INDEX NAME)

L38 ANSWER 37 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1990:413710 CAPLUS
DOCUMENT NUMBER: 113:11710
ORIGINAL REFERENCE NO.: 113:2003a,2004a
TITLE: The measurement of electron transport system activity in river biofilms
AUTHOR(S): Blenkinsopp, S. A.; Lock, M. A.
CORPORATE SOURCE: Sch. Biol. Sci., Univ. Coll. North Wales, Bangor/Gwynedd, LL57 2UW, UK
SOURCE: Water Research (1990), 24(4), 441-5
CODEN: WATRAG; ISSN: 0043-1354
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Factors affecting the measurement of electron transport system (ETS) activity in river biofilms by the reduction of 3-(p-iodophenyl)-2-(p-nitrophenyl)-5-phenyltetrazolium chloride (I) to iodonitrotetrazolium formazan (II) were studied. MeOH eats. II more effectively than either propanol or EtOH. A concentration of 0.02% I was chosen and samples incubated for <8 h. ETS activity is optimal at a circumneutral pH. ETS stimulators (NADH, NADPH, and succinate) added as a check of the assay produced an increase in II, indicating that ETS activity was being measured. This assay is quick and easy to use in field studies.
IT 7781-49-9P, Iodonitrotetrazolium formazan
RL: FORM (Formation, nonpreparative); PREP (Preparation)
(formation of, in river biofilm, in electron transport system activity measurement)
RN 7781-49-9 CAPLUS
CN Methanone, [2-(4-iodophenyl)diazenyl]phenyl-, 2-(4-nitrophenyl)hydrazone (CA INDEX NAME)

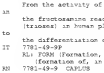
OS.CITING REF COUNT: 30 THERE ARE 30 CAPLUS RECORDS THAT CITE THIS RECORD (30 CITINGS)

L38 ANSWER 38 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1989:191627 CAPLUS
DOCUMENT NUMBER: 110:191627
ORIGINAL REFERENCE NO.: 110:31799a,31802a
TITLE: Improved extraction of iodonitrotetrazolium-formazan from soil with dimethylformamide
AUTHOR(S): Griffiths, B. S.
CORPORATE SOURCE: Dep. Soil., Scott. Crop Res. Inst., Dundee, DD2 5DA, UK
SOURCE: Soil Biology & Biochemistry (1989), 21(1), 179-80
CODEN: SBIOAM; ISSN: 0038-0717
DOCUMENT TYPE: Journal
LANGUAGE: English
AB DMF extracted significantly more iodonitrotetrazolium formazan (I) from soils (clay loam and sandy) than MeOH; e.g., 11.13 μg I/g were extracted by DMF, as compared to 6.87 μg/g with MeOH.
IT 7781-49-9, Iodonitrotetrazolium formazan
RL: PEC (Process)
(extraction of, with DMF)
RN 7781-49-9 CAPLUS
CN Methanone, [2-(4-iodophenyl)diazenyl]phenyl-, 2-(4-nitrophenyl)hydrazone (CA INDEX NAME)



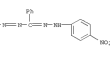
OS.CITING REF COUNT: 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)

L38 ANSWER 39 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1988:543894 CAPLUS
DOCUMENT NUMBER: 109:143894
ORIGINAL REFERENCE NO.: 109:24947a,24950a
TITLE: Re-evaluation of the fructosamine reaction
AUTHOR(S): Phillipson, G.; Seaborn, C. J.; Phillips, P. J.
CORPORATE SOURCE: Endocr. Diabetes Lab., Queen Elizabeth Hosp., Woodville, 5011, Australia
SOURCE: Clinical Chemistry (Washington, DC, United States) (1988), 34(8), 1561-4
CODEN: CLCHAV; ISSN: 0009-9147
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The difference in spectral characteristics between 1-deoxy-1-morpholinofructose (I) and protein/plasma samples in the fructosamine reaction was related to the solubility of the diformazan formed by reduction of nitro blue tetrazolium chloride. Addition of the surfactant Triton X 100 (20 g/L) to the reagent buffer not only corrects this anomaly but also enhances the absolute response. Detailed investigation of I and dihydroxyacetone as calibration stds. for the reaction established a clear preference for the latter. Fundamental differences in reaction kinetics were also noted between the Amadori rearrangement products of glucose formed from I or the amino lysine groups of protein (glycated albumin). From the activity of dihydroxyacetone as well as glyceraldehyde observed in the fructosamine reaction, and the presence of this class of compds. (trioses) in human plasma, it is inferred that they may also contribute to the differentiation of diabetic and nondiabetic samples.
IT 7781-49-9P
RL: FORM (Formation, nonpreparative); PREP (Preparation)
(formation of, in fructosamine reaction)
RN 7781-49-9 CAPLUS
CN Methanone, [2-(4-iodophenyl)diazenyl]phenyl-, 2-(4-nitrophenyl)hydrazone (CA INDEX NAME)



OS.CITING REF COUNT: 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)

L38 ANSWER 40 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1988:172874 CAPLUS
DOCUMENT NUMBER: 108:172874
ORIGINAL REFERENCE NO.: 108:28229a,28232a
TITLE: INT dehydrogenase assay for chemical toxicity in wastewater systems
AUTHOR(S): Koegman, Ben; Bitton, Gabriel
CORPORATE SOURCE: Dep. Environ. Eng. Sci., Univ. Florida, Gainesville, FL, 32611, USA
SOURCE: Toxicity Assessment (1987), 2(1), 105-14
CODEN: TOXSE8; ISSN: 0884-8181
DOCUMENT TYPE: Journal
LANGUAGE: English
AB A method for the assessment of chemical compound toxicity in wastewater and activated sludge is based on the reduction of INT by the electron transport system of active microorganism to red INT-formazan crystals.
IT 7781-49-9P
RL: FORM (Formation, nonpreparative); PREP (Preparation)
(formation of, in wastewater toxicity assessment by INT dehydrogenase assay)
RN 7781-49-9 CAPLUS
CN Methanone, [2-(4-iodophenyl)diazenyl]phenyl-, 2-(4-nitrophenyl)hydrazone (CA INDEX NAME)

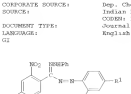


OS.CITING REF COUNT: 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)

L38 ANSWER 41 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1988:164892 CAPLUS
DOCUMENT NUMBER: 108:164892
ORIGINAL REFERENCE NO.: 108:27417a,27420a
TITLE: Tautomerism and conformational equilibrium in 1(5)-(2-nitrophenyl)-5(3)-arylformazans
AUTHOR(S): Shmelev, L. V.; Ryabokobylko, Yu. S.; Kazennikh, A. V.; Ostrovskaya, V. M.
CORPORATE SOURCE: Vses. Nauchno-Issled. Inst. Khim. Reakt. Osobo Chist. Khim. Veshchestv, Moscow, USSR
SOURCE: Zhurnal Obshchei Khimii (1987), 57(7), 1637-43
CODEN: ZOKHA4; ISSN: 0044-460X
DOCUMENT TYPE: Journal
LANGUAGE: Russian
AB Tautomeric and conformational equilibrium in a series of title formazans are
studied by NMR, IR and electronic spectroscopy. The contribution of the open syn-s-trans-trans form grows with increasing disparity in the electronic properties of the 1- and 5-aryl groups. Concomitantly, the tautomeric equilibrium shifts in the direction of the tautomer with the E on
the H attached to the more electroneg. aryl group.
IT 11791-55-8
RL: PEP (Properties)
(conformational and tautomeric equilibrium of, by NMR, IR and electronic
spectroscopy)
RN 11791-55-8 CAPLUS
CN Benzenamine, 2-[[(4-iodophenyl)hydrazono]phenylmethyl]azo]-, (Z,E)- (9CI)
(CA INDEX NAME)
Double bond geometry as shown.

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD
(1 CITINGS)

L38 ANSWER 42 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1986:498789 CAPLUS
DOCUMENT NUMBER: 105:98789
ORIGINAL REFERENCE NO.: 105:14517a,14520a
TITLE: Synthesis and antiviral activity of 1-aryl-5-(5,6-dimethoxy-4-nitrophenyl)-5-phenyl formazans as antiviral agents
AUTHOR(S): Pande, Alka; Saxena, V. K.
CORPORATE SOURCE: Dep. Chem., Lucknow Univ., Lucknow, 226 007, India
SOURCE: Indian Drugs (1986), 23(7), 423-6
CODEN: INDRAV; ISSN: 0019-462X
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



AB Nine title compds. I (R=OEt, OCHEt, Et-OEt, OCEEt, halo) were prepared and
tested for antiviral activity against tobacco mosaic virus and Ranikhet disease virus in vitro and in vivo models. Most I showed a pronounced growth inhibitory effect. Structure-activity relations are discussed.
IT 103555-89-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn and plant and animal antiviral activity of, structure in relation to)
RN 103955-89-1 CAPLUS
CN Methanone, (4,5-dimethoxy-2-nitrophenyl)[2-(4-iodophenyl)diazenyl]-, 2-phenylhydrazone (CA INDEX NAME)

OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD
(2 CITINGS)

L38 ANSWER 43 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1986:142235 CAPLUS
DOCUMENT NUMBER: 104:142235
ORIGINAL REFERENCE NO.: 104:22141a,22144a
TITLE: Photometric determination of sulfur with triphenyltetrazolium derivatives
AUTHOR(S): Kolesnikova, A. M.; Lazarev, A. I.; Lazareva, V. I.
CORPORATE SOURCE: Inst. Nov. Khim. Probl., Chernogolovka, USSR
SOURCE: Zavodskaya Laboratoriya (1985), 51(11), 1-6
CODEN: ZVDLAU; ISSN: 0044-1910
DOCUMENT TYPE: Journal
LANGUAGE: Russian
AB The determination is based on the reduction of 2,3,5-triphenyl-2H-tetrazolium chloride
(I) and its deriv. by H2S and measuring the absorbance of the corresponding formazans. The molar absorptivity of the product obtained by the reduction of
2-(p-iodophenyl)-3-(p-nitrophenyl)-5-phenyl-2H-tetrazolium
in 3:2 DMSO-EtOH at pH 10.3-11.5 is 1.1 × 10$ at 670 nm. Beer's law is obeyed for 0.016-0.5 μ S/mL. The method was used for determining S in
steel, H2 base alloy, galena, KNaC4H4O6·4Sx, Cr, Sn, and NaHSPO4 samples. Simple apparatus schemes are given for determining S2- and SO42-.
IT 7783-49-9
RL: PEP (Properties)
(spectrum of)
RN 7783-49-9 CAPLUS
CN Methanone, [2-(4-iodophenyl)diazenyl]phenyl-, 2-(4-nitrophenyl)hydrazone (CA INDEX NAME)

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD
(3 CITINGS)

L38 ANSWER 44 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1986:129909 CAPLUS
DOCUMENT NUMBER: 104:129909
ORIGINAL REFERENCE NO.: 104:20557a,20560a
TITLE: Tetrazolium derivatives
INVENTOR(S): Shiga, Tadanobu
PATENT ASSIGNEE(S): Doyin Kagaku Kenkyusho K. K., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

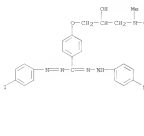
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 60142969	A	19850729	JP 1983-175121	19830920
PRIORITY APPLN. INFO.:			JP 1983-175121	19830920

OTHER SOURCE(S): CASREACT 104:129909
GI

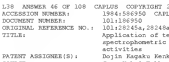
* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Title compds. I (R = Q, Q1, C6H4-4-I; R1 = NO2, H; R = halo), useful as reagents for determination of dehydrogenases, were prepared thus, refluxing
p-RCOC6H4CHO with epichlorohydrin for 3 h gave 53% (epoxypropoxy)benzaldehyde II (R2 = CHO), which reacted with p-O2NC6H4NHNH2 to give 95% II (R2 = p-O2NC6H4NHN:CH), which was refluxed with N-methylglucamine to give 102% III, which was treated with the diazonium salt of dianisidine to give 34% IV, which was treated with
RuNO3
to give 63% I (R = Q), which gave a good calibration curve for anal. of plasma LDH activity.
IT 100479-43-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reactions of, tetrazolium halides from)
RN 100479-43-0 CAPLUS
CN D-Glucitol, 1-deoxy-1-[[2-hydroxy-3-[4-[[4-iodophenyl]azo][(4-nitrophenyl)hydrazono]methyl]phenoxy]propyl]methylamino]- (9CI) (CA INDEX
NAME)

L38 ANSWER 44 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)



L38 ANSWER 45 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1984:605487 CAPLUS
DOCUMENT NUMBER: 101:205487
ORIGINAL REFERENCE NO.: 101:31827a,31939a
TITLE: Validity of tetrazolium reduction assays for assessing toxic inhibition of filamentous bacteria in activated sludge
AUTHOR(S): Koopman, Ben; Bitton, Gabriel; Logue, Charles; Bossart, John M.; Lopez, Juan M.
CORPORATE SOURCE: Dep. Environ. Eng. Sci., Univ. Florida, Gainesville, FL, USA
SOURCE: Drug and Chemical Toxicology (1984) (1984), 1(Toxic. Screening Proced. Using Bact. Syst.), 147-62
CODEN: DCTOAK; ISSN: 0888-8337
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The viability of filamentous bacteria in activated sludge was determined by the reduction of 2-(p-iodophenyl)-3-(p-nitrophenyl)-5-phenyltetrazolium chloride (INT) [146-68-9] to INT-formazan (INTF) [7701-49-9], which deposited in active cells as dark red, intracellular crystals. Overall (gross) electron transport system (ETS) activity of activated sludge biomass was determined by extracting INTF, whereas specific ETS activity of filamentous bacteria was measured by comparing the total length of active filaments (containing INTF crystals) to the total length of all (active plus nonactive) filaments. Results of expts. testing the validity of these assays established that (1) abiotic INT-reduction is negligible, (2) specific and gross activity parameters give equivalent results in axenic Sphaerotilus natans cultures, (3) gross activity is well correlated with dissolved O uptake rate, and (4) specific activity is an accurate predictor of changes in sludge settleability caused by H2O2 addns. Thus, the tetrazolium reduction assay using INT is a valid means of assessing the toxic inhibition of filamentous microorganisms in activated sludge.
IT 7701-49-9
RL: FORM (Formation, nonpreparative)
(formation of, in filamentous bacteria, by electron transport system reduction of tetrazolium, as toxic screening assay)
RN 7701-49-9 CAPLUS
CN Methanone, [2-(4-iodophenyl)diazenyl]phenyl-, 2-(4-nitrophenyl)hydrazone (CA INDEX NAME)



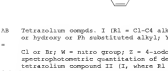
OS.CITING REF COUNT: 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD
(5 CITINGS)

L38 ANSWER 45 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)

L38 ANSWER 46 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1984:586950 CAPLUS
DOCUMENT NUMBER: 101:186950
ORIGINAL REFERENCE NO.: 101:28245a,28248a
TITLE: Application of tetrazolium compounds in spectrophometric determination of dehydrogenase activities
PATENT ASSIGNEE(S): Dojin Kagaku Kenkyusho K. K., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

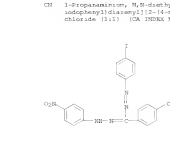
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 59112973	A	19840629	JP 1983-212244	19831110
PRIORITY APPLN. INFO.:			JP 1983-212244	19831110

OTHER SOURCE(S): CASREACT 101:186950
GI



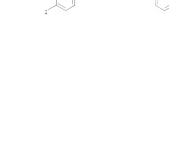
AB Tetrazolium compds. I (R1 = C1-C4 alkyl or hydroxyethyl; R2 = C1-C4 alkyl or hydroxy or Ph substituted alkyl; Y = C2-C4 alkene or hydroxyalkene; X = Cl or Br; W = nitro group; Z = 4-iodophenyl) are used in spectrophotometric quantitation of dehydrogenase activity. Thus, a tetrazolium compound II (I, where R1 = Et, R2 = 2-hydroxy Et, Y = 2-hydroxy propylene, X = Cl, W = nitro group, Z = 4-iodophenyl, and the substituted alkoxy group was on the 4th position of the benzene ring) was prepared by refluxing 1-(4-iodophenyl)-5-(4-nitrophenyl)-3-[4-(2-hydroxy-3-diethylaminopropoxy)phenyl]formazan in ethylenedichlorohydrin and TNF, and MeOH was added to the reaction mixture; the reaction mixture was filtered and concentrated to obtain a quaternary ammonium salt of the formazan; the formazan quaternary ammonium salt was subsequently dissolved in MeOH, mixed with HCl, and reacted with Na nitrite to obtain II. For determination of lactate dehydrogenase activity, serum samples were first mixed with a glycine-lactate buffer (pH 9.6) and the above prepared II and further mixed with a phosphate buffer (pH 7.4) containing NAD, phenazine methorsulfate, and albumin; the mixture was incubated at 37° for 8 min and the absorbance was measured at 95 nm to obtain the enzyme activity.
IT 92780-77-3P
RL: PREP (Preparation)

L38 ANSWER 46 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)
(prep. and Bz nitrite reaction with)
RN 92786-77-3 CAPLUS
CN 1-Propanaminium, N,N-diethyl-2-hydroxy-N-(2-hydroxyethyl)-3-[4-[[2-(4-iodophenyl)diazenyl][2-(4-nitrophenyl)hydrazinylidene]methyl]phenoxy]-, chloride (1:1) (CA INDEX NAME)

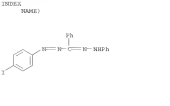


● Cl⁻

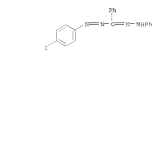
IT 87857-07-6
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with ethylenechlorohydrin and methanol)
RN 87857-07-6 CAPLUS
CN Methanone, [4-[3-(diethylamino)-2-hydroxypropoxy]phenyl][2-(4-iodophenyl)diazenyl], 2-(4-nitrophenyl)hydrazone (CA INDEX NAME)



L38 ANSWER 47 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1984:138369 CAPLUS
DOCUMENT NUMBER: 100:138369
ORIGINAL REFERENCE NO.: 100:2109h,2109ha
TITLE: Micellar-catalyzed oxidative cyclization of 1,3,5-triarylformazans
AUTHOR(S): Balakrishnan, K.; Raghavan, P. S.; Srinivasan, Vangalur S.
CORPORATE SOURCE: Dep. Chem., Vivekananda Coll., Madras, 600 004, India
SOURCE: Proceedings - Indian Academy of Sciences, Chemical Sciences (1983), 92(3), 283-90
CODEN: PIASB9; ISSN: 0253-4134
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Both Na lauryl sulfate (NaLS) or CTAB increase the oxidation rate of 1,3,5-triarylformazans by Tl(OAc)3 in 90% aqueous HOAc as the reactive species is neutral. The higher neg. ρ for the LFER with CTAB than NaLS indicates that the transition state is more electron deficient in CTAB than in NaLS. A hydrophobic interaction between the micelles and the formazans is observed
IT 78818-69-6
RL: RCT (Reactant); RACT (Reactant or reagent)
(oxidative cyclization of, by thallic acetate in presence of micelles, kinetics and mechanism of)
RN 78818-69-6 CAPLUS
CN Methanone, [2-(4-iodophenyl)diazenyl]phenyl-, 2-phenylhydrazone (CA INDEX NAME)



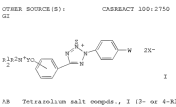
L38 ANSWER 48 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1984:102542 CAPLUS
DOCUMENT NUMBER: 100:102542
ORIGINAL REFERENCE NO.: 100:15565a,15566a
TITLE: Reaction between thallium(III) acetate and 1,3,5-triarylformazan - a linear free energy correlation of oxidative cyclization
AUTHOR(S): Balakrishnan, P.; Srinivasan, Vangalur S.
CORPORATE SOURCE: Dep. Chem., Vivekananda Coll., Madras, 600 004, India
SOURCE: Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry (1983), 22B(8), 771-5
CODEN: IJSBDB; ISSN: 0376-4699
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Tl(OAc)3 oxidns. of 1,3,5-triarylformazans are examined in 90:10 (volume/volume) HOAc.H2O. The oxidative cyclization exhibits total second order kinetics. For 1 mol of Tl(OAc)3 , 1 mol of formazan is consumed, yielding 95% of the tetrazolium salt. The reaction mixture does not initiate acrylonitrile polymerization The rate of oxidation is susceptible to polar effects of substituents present in the Ph rings of formazan. The ρo, ρp+, and ρm are -0.81, -0.75 and -0.80, resp.; the neg. ρ are indicative of an electron deficient transition state. The high neg. entropies of activation reveal that the transition state is probably cyclic. The thermodn. parameters are subjected to an Exner treatment giving a linear slope of less than unity and an isokinetic temperature of 728 K, showing that the LFER is valid. The influence of dielec. constant of the medium indicates that the reactants are dipolar in nature.
IT 78818-69-6
RL: RCT (Reactant); RACT (Reactant or reagent)
(oxidative cyclization of, kinetics and mechanism of)
RN 78818-69-6 CAPLUS
CN Methanone, [2-(4-iodophenyl)diazenyl]phenyl-, 2-phenylhydrazone (CA INDEX NAME)



L38 ANSWER 49 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1984:2750 CAPLUS
DOCUMENT NUMBER: 100:2750
ORIGINAL REFERENCE NO.: 100:479a,482a
TITLE: Preparation of tetrazolium salt compounds and their application in spectrophotometric determination of dehydrogenases
PATENT ASSIGNEE(S): Dojin Kagaku Kenkyusho K. K., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 58113181	A	19830705	JP 1981-214618	19811226
JP 60003396	B	19850128		
PRIORITY APPLN. INFO.:			JP 1981-214618	19811226

OTHER SOURCE(S): CASREACT 100:2750
GI

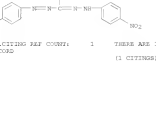


I

AB Tetrazolium salt compds., I (3- or 4-R12R2NYO, Y = alkylene, R1 = alkyl or hydroxyethyl, R2 = alkyl, hydroxyalkyl, or phenylalkyl; X = Cl- or Br-, W = H or NO2, and Z = 4,5-dimethyl-2-thiazolyl, or 4-iodophenyl) are prepared and used as H acceptors in spectrophotometric quantitation of dehydrogenase activities. Thus, 3-(4-iodophenyl)-1-(4-nitrophenyl)-5-[4-(2-hydroxy)-diethylaminopropoxyphenyl]formazan was prepared by reacting 4-(2-hydroxy-3-diethylaminopropoxy)benzaldehyde-4-nitrophenylhydrazone with 4-iodobenzenediazonium-HCl. A 1 compound (4-R12R2NYO, Y = 2-hydroxypropylene, R1 = R2 = hydroxyethyl, X = Cl-, W = NO2, and Z = 4-iodophenyl) was subsequently prepared by reacting a quaternary ammonium salt of the prepared formazan in MeOH with HCl and butylnitrite. The prepared 1 compound was used in determining the activity of serum lactate dehydrogenase in an assay system containing the 1 compound glycine-lactate, NAD, PMS, and serum albumin in a pH 7.4 phosphate buffer.
IT 87857-01-0P 87857-07-6P
RL: PREP (Preparation)
(preparation of)
RN 87857-01-0 CAPLUS
CN Methanone, [3-(2-chloro-3-hydroxypropoxy)phenyl][2-(4-iodophenyl)diazenyl]-

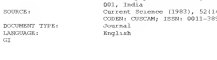
L38 ANSWER 49 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)
, 2-(4-nitrophenyl)hydrazone (CA INDEX NAME)

RN 87857-07-6 CAPLUS
CN Methanone, [4-[3-(diethylamino)-2-hydroxypropoxy]phenyl][2-(4-
iodophenyl)diazenyl]-, 2-(4-nitrophenyl)hydrazone (CA INDEX NAME)

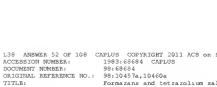


OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD
(1 CITINGS)

L38 ANSWER 50 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1983:594545 CAPLUS
DOCUMENT NUMBER: 99:194545
ORIGINAL REFERENCE NO.: 99:29935a,29936a
TITLE: Synthesis of some formazans and tetrazolium bromides as potential antiviral agents
AUTHOR(S): Singh, S. P.; Bahadur, Surendra
CORPORATE SOURCE: Div. Biophys., Cent. Drug Res. Inst., Lucknow, 226 001, India
SOURCE: Current Science (1983), 52(14), 666-9
CODEN: CUSCAM; ISSN: 0011-3891
DOCUMENT TYPE: Journal
LANGUAGE: English
GI

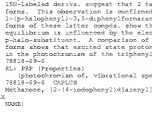


AB A benzaldehyde hydrazone derivative reacted with diazonium salts of RNH2 (R =
Ph, tolyl, HO2CC6H4, EtO2CC6H4, AcNHC6H4, C2H5C6H4, alkoxyphenyl, halophenyl) to yield formazans I, which exhibited antiviral activity. Thus, 4,3-MeO(CO2H)C6H3CH:NNHPh was treated with a diazonium salt, obtained
from PhNH2, in pyridine at <12° to give I (R = Ph). Antiviral activity was also observed for tetrazolium salts II (R1 = HO2CC6H4, EtO2CC6H4, AcNHC6H4, BrC6H4), which were obtained from the reasp. I by oxidation with H2O2-Fe2+.
IT 84297-42-7P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological
study, unclassified); SNH (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation and antiviral activity of)
RN 84297-42-7 CAPLUS
CN Methanone, [2-(4-iodophenyl)diazenyl](4-methoxy-3-nitrophenyl)-, 2-phenylhydrazone (CA INDEX NAME)



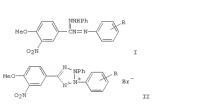
OS.CITING REF COUNT: 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD
(3 CITINGS)

L38 ANSWER 51 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1983:437731 CAPLUS
DOCUMENT NUMBER: 99:37731
ORIGINAL REFERENCE NO.: 99:5925a,5926a
TITLE: Infrared absorption and reasonance Raman scattering of photochromic triphenylformazans
AUTHOR(S): Lewis, J. W.; Sandorfy, C.
CORPORATE SOURCE: Dep. Chin., Univ. Montreal, Montreal, QC, H3C 3V1, Can.
SOURCE: Canadian Journal of Chemistry (1983), 61(5), 909-16
CODEN: CJCHAG; ISSN: 0008-4042
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The IR and resonance Raman spectra of the 2 long-lived forms of triphenylformazan and its deriv. are examined. The spectra of unsym. 15N-labeled derivs. suggest that 2 tautomers exist for each of the 2 forms. This observation is confirmed by the spectra of 1-(p-halophenyl)-3,5-diphenylformazans. The spectra of the nonchelate forms of these latter compds. show that the position of the tautomeric equilibrium is influenced by the electron-attracting ability of the p-halo-substituent. A comparison of the resonance Raman spectra of the 2 forms shows that excited state proton transfer is the initial photoevent in the photochromism of the triphenylformazans.
IT 78828-69-6
RL: PRP (Properties)
(photochromism of, vibrational spectra in relation to mechanism of)
RN 78828-69-6 CAPLUS
CN Methanone, [2-(4-iodophenyl)diazenyl]phenyl-, 2-phenylhydrazone (CA INDEX
NAME)

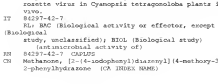


OS.CITING REF COUNT: 15 THERE ARE 15 CAPLUS RECORDS THAT CITE THIS RECORD (15 CITINGS)

L38 ANSWER 52 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1983:69684 CAPLUS
DOCUMENT NUMBER: 98:69684
ORIGINAL REFERENCE NO.: 98:10457a,10460a
TITLE: Formazans and tetrazolium salts as potential antibacterial, antifungal, and antiviral agents
AUTHOR(S): Awasthi, L. P.; Singh, S. P.
CORPORATE SOURCE: Dep. Bot., Lucknow Univ., Lucknow, 226 007, India
SOURCE: Zentralblatt fuer Mikrobiologie (1982), 137(6), 503-7
CODEN: ZEMIDI; ISSN: 0232-4393
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



AB Fifteen 1-aryl-3-(3'-nitro-4'-methoxyphenyl)-5-phenylformazans (I) and 5 3-aryl-5-(3'-nitro-4'-methoxyphenyl)-2-Ph tetrazolium bromides (II) were tested against Escherichia coli and Pseudomonas aeruginosa for their antibacterial activities and against Aspergillus flavus and Helminthosporium gramineum for their antifungal activities. Most of the compds. showed promising antibacterial and antifungal action. 7test compds. also exhibited significant antiviral activity against sunnhemp rosette virus in Cyamopsis tetragonoloba plants in vitro as well as in vivo.
IT 84297-42-7
RL: BAC (Biological activity or effector, except adverse); BSU (Biological
study, unclassified); BIOL (Biological study)
(antimicrobial activity of)
RN 84297-42-7 CAPLUS
CN Methanone, [2-(4-iodophenyl)diazenyl](4-methoxy-3-nitrophenyl)-, 2-phenylhydrazone (CA INDEX NAME)



L38 ANSWER 52 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)
OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD

(1 CITINGS)

L38 ANSWER 53 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1983:15847 CAPLUS
DOCUMENT NUMBER: 98:15847
ORIGINAL REFERENCE NO.: 98:2565a,2566a
TITLE: Measurement of electron transport system (ETS) activity in soil
AUTHOR(S): Trevors, J. T.; Mayfield, C. I.; Inniss, W. E.
CORPORATE SOURCE: Dep. Biol., Univ. Waterloo, Waterloo, ON, N2L 3G1, Can.
SOURCE: Microbial Ecology (1982), 8(2), 163-8
CODEN: MCEBAV; ISSN: 0095-3628

DOCUMENT TYPE: Journal
LANGUAGE: English
AB Measurement of ETS, a consequence of microbial metabolism proverser in soil,
is useful in assessing the soil status. ETS was determined by measuring the
reduction of 2-(p-iodophenyl)-3-(p-nitrophenyl)-5-phenyltetrazolium chloride
(INT) [146-68-9] to iodonitrotetrazolium formazan (INT-formazan) [7781-49-3], the latter being extracted with MeOH and measured spectrophotometrically at 490 nm. ETS activity in soil was closely associated with active cellular metabolism, as indicated by its correlation with
O2 consumption in nonamended soil and in soil amended with yeast and glucose. Soils amended with yeast extract or glucose displayed higher cumulative O2 consumption than did the nonamended soil. No respiratory activity was found in sterile soil controls. The rates of O2 consumption showed that INT did not inhibit the microbial respiration in soil. The correlation between the ETS activity and O2 consumption was very high, both in amended and nonamended soils. The method of ETS measurement is suitable for both aerobically- and anaerobically-incubated soil.
IT 7781-49-9
RL: FORM (Formation, nonpreparative)
(formation of, in soil, as measurement of electron transport system activity)
RN 7781-49-9 CAPLUS
CN Methanone, [2-(4-iodophenyl)diazenyl]phenyl-, 2-(4-nitrophenyl)hydrazone (CA INDEX NAME)

OS.CITING REF COUNT: 42 THERE ARE 42 CAPLUS RECORDS THAT CITE THIS RECORD (42 CITINGS)

L38 ANSWER 54 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1992:698892 CAPLUS
DOCUMENT NUMBER: 97:98892
ORIGINAL REFERENCE NO.: 97:16402a,16404a
TITLE: Antihypororal activity of 1-aryl-2-(3'-nitro-4'-methoxyphenyl)-5-(4'-nitrophenyl) formazans
AUTHOR(S): Mukerjee, D. D.; Shukla, S. K.
CORPORATE SOURCE: Dep. Chem., Lucknow Univ., Lucknow, 226007, India
SOURCE: Indian Journal of Forestry (1981), 4(3), 195-7
CODEN: IJFODV; ISSN: 0250-5246

DOCUMENT TYPE: Journal
LANGUAGE: English
AB Fifteen new 1-aryl-3-(3'-nitro-4'-methoxyphenyl)-5-(4'-nitrophenyl) formazans were screened for antiviral activity against gamphrena mosaic and sunnhemp rosette viruses in Chenopodium amaranticolor in vitro as well
as in vivo. Most of the compds. showed significant antiviral activity against both the viruses in vitro and also in vivo when applied 24 h before virus challenge. However, none was active against the viruses in vivo when applied 24 h after virus challenge.
IT 80692-21-3
RL: BAC (Biological activity or effector, except adverse); BSU (Biological
study, unclassified); BIOL (Biological study)
(virucidal activity of, in plants)
RN 80692-21-3 CAPLUS
CN Methanone, [2-(4-iodophenyl)diazenyl](4-methoxy-3-nitrophenyl)-, 2-(4-nitrophenyl)hydrazone (CA INDEX NAME)

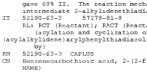
OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD

(2 CITINGS)

L38 ANSWER 55 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1982:104148 CAPLUS
DOCUMENT NUMBER: 96:104148
ORIGINAL REFERENCE NO.: 96:17105a,17108a
TITLE: Acylation of N'-arylbenzothiohydrazides and of their N'-acyl derivatives: 2-acylalkylidene-3-aryl-5-phenyl-2H-1,3,4-thiadiazolines and related compounds
AUTHOR(S): Callaghan, Patrick D.; Elliott, Arthur J.; Sandhi, Shan S.; Gibson, Martin S.; Mastalerz, Harold; Vukov, Darko J.
CORPORATE SOURCE: Dep. Chem., Brock Univ., St. Catharines, ON, L2S 3A1, Can.
SOURCE: Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1972-1999) (1981), (11), 2948-51
CODEN: JCPRB4; ISSN: 0300-922X

DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 96:104148
GI

AB Reaction of N'-arylbenzothiohydrazides and their N-acyl derivs. with carboxylic anhydrides under various conditions gave the title thiadiazolines. E. g., PhCSNHNHC6H3F2-2,4 (I; R = H) reacted with Ac2O (MeCN/Et3N, reflux, 4 h) to give 67% thiadiazoline II, whereas I (R = Ac)
gave 69% II. The reaction mechanism is discussed in terms of an intermediate 2-alkylidenethiadiazoline.
IT 52190-63-3 57279-81-9
RL: RCT (Reactant); RACT (Reactant or reagent)
(acylation and cyclization of, acylalkylidene)arylphenylthiadiazolines
by)
RN 52190-63-3 CAPLUS
CN Benzenecarbothoic acid, 2-(2-fluoro-4-iodophenyl)hydrazide (CA INDEX NAME)



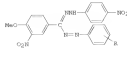
RN 57279-81-9 CAPLUS
CN Benzenecarbothoic acid, 2-(2,4-diiodophenyl)hydrazide (CA INDEX NAME)

L38 ANSWER 55 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD

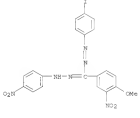
(1 CITINGS)

L38 ANSWER 56 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1982:85143 CAPLUS
DOCUMENT NUMBER: 96:85143
ORIGINAL REFERENCE NO.: 96:13971a,13974a
TITLE: Synthesis of some new formazans as potential antiviral agents
AUTHOR(S): Mukerjee, Dev D.; Shukla, Shri K.; Chowdhary, Birendra
CORPORATE SOURCE: Dep. Chem., Lucknow Univ., Lucknow, 226007, India
SOURCE: Archiv der Pharmazie (Weinheim, Germany) (1982), 314(12), 991-4
CODEN: ARPMAS; ISSN: 0365-6233
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



AB Formazans I (R = H, 4-Cl, 4-Br, 4-iodo, 4-O2N, 2-HO2C, 3-HO2C, 4-HO2C, 4-MeO2C, 4-EtO2C, 4-PrO2C, 4-BuO2C, 2-MeO, 3-MeO, 4-MeO) were prepared by nitrating 4-MeOC6H4CHO to give 3,4-O2NC6H3(MeO)CHO which condensed with 4-O2NC6H4NHNH2 to give the hydrazone which coupled with RC6H4N2+Cl-. The virucidal activity of I was greatly dependent on the nature of R. Best activity was found in I (R = 4-HO2C), whereas its esters had little activity.
IT 80692-21-3P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological
study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation and virucidal activity of)
RN 80692-21-3 CAPLUS
CN Methanone, [2-(4-iodophenyl)diazenyl](4-methoxy-3-nitrophenyl)-, 2-(4-nitrophenyl)hydrazone (CA INDEX NAME)

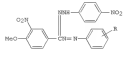
L38 ANSWER 54 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)



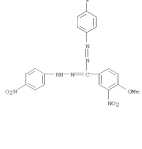
OS.CITING REF COUNT: 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD

(4 CITINGS)

L38 ANSWER 57 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1982:65524 CAPLUS
DOCUMENT NUMBER: 96:65524
ORIGINAL REFERENCE NO.: 96:10735a,10738a
TITLE: Antimicrobial action of 1-aryl-3-(3'-nitro-4'-methoxyphenyl)-5-(4'-nitrophenyl) formazans
AUTHOR(S): Mukerjee, D. D.; Shukla, S. K.
CORPORATE SOURCE: Dep. Chem., Lucknow Univ., Lucknow, 226007, India
SOURCE: Bokin Bobai (1981), 9(11), 521-3
CODEN: BOBOEP; ISSN: 0385-5201
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



AB A total of 15 substituted formazan derivs. of the general structural formula I were tested in vitro for their activity against bacteria and fungi. Compds. with chloro, bromo, and nitro groups at the para position had higher antimicrobial activity than unsubstituted compds. The activity
was enhanced by a carboxyl group at the para position or a methoxy group at the ortho or meta positions.
IT 80692-21-3
RL: BAC (Biological activity or effector, except adverse); BSU (Biological
study, unclassified); BIOL (Biological study)
(antimicrobial activity of, structure in relation to)
RN 80692-21-3 CAPLUS
CN Methanone, [2-(4-iodophenyl)diazenyl](4-methoxy-3-nitrophenyl)-, 2-(4-nitrophenyl)hydrazone (CA INDEX NAME)



L38 ANSWER 57 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)

OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD

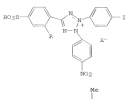
(3 CITINGS)

L38 ANSWER 58 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN

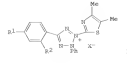
ACCESSION NUMBER: 1981:569190 CAPLUS
DOCUMENT NUMBER: 95:169190
ORIGINAL REFERENCE NO.: 95:28285a,28286a
TITLE: Tetrazolium salts
PATENT ASSIGNEE(S): Doyundo Laboratories, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 56061367	A	19810526	JP 1979-137282	19791023
PRIORITY APPLN. INFO.:			JP 1979-137282	A 19791023

GI



I



II

AB Title compds. I and II (R-R2 = H, SO3H; X = Cl, Br) and their K salts were

prepared Thus, treatment 7.4 g 6-KO3SC6H4CH:NNHC6H4NO2-4, obtained from 6-KO3SC6H4CHO, with 4-ClC6H4N2+Cl- gave 5.6 g formazan, which (3.5 g) was oxidized to give 2.01 g K salt of the title compound I (R = H, X = Cl).

IT 79064-44-1P

RL: RCT (Reactant); SPH (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and oxidation of)

RN 79064-44-1 CAPLUS

CN Benzenesulfonic acid, 4-[[2-(4-iodophenyl)diazenyl][2-(4-nitrophenyl)hydrazinylidene]methyl]-, potassium salt (1:1) (CA INDEX NAME)

L38 ANSWER 59 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD

(1 CITINGS)

L38 ANSWER 59 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 1981:496609 CAPLUS
DOCUMENT NUMBER: 95:96609
ORIGINAL REFERENCE NO.: 95:16227a,16230a
TITLE: Kinetics and mechanism of oxidative cyclization of formazans to tetrazolium salts by thallium(III) acetate
AUTHOR(S): Balakrishnan, S.; Srinivasan, V. S.; Venkatasubramanian, N.
CORPORATE SOURCE: Dep. Chem., Vivekananda Coll., Madras, 600 004, India
SOURCE: Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry (1981), 20B(5), 404-6
CODEN: IJSBDB; ISSN: 0376-4699
DOCUMENT TYPE: Journal
LANGUAGE: English

AB The kinetics of Tl(III) acetate oxidation of 1,3,5-triarylformazans were investigated in aqueous AcOH mixture The reaction with leads to tetrazolium salt as the product, follows the rate-law: - d[Tl(III)]/dt = k2[formazan][Tl(III)]. The effect of substituent in the aldehyde (3-phenyl), the phenylhydrazine (1-phenyl) and the aryldiazonium (5-phenyl) moieties on the reaction rate has been studied and the corresponding Hammett ρ's are -0.78, -0.85 and -0.8, resp. A mechanism for the oxidative cyclization involves the formation of a N-thallated complex between the formazan and Tl(III) acetate which decomps. in a slow step accompanied by a ring closure between N-1 and N-5.

IT 78818-69-6

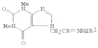
RL: RCT (Reactant); RACT (Reactant or reagent)

(oxidative cyclization of, kinetics and mechanism of)

RN 78818-69-6 CAPLUS

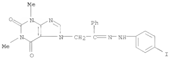
CN Methanone, [2-(4-iodophenyl)diazenyl]phenyl-, 2-phenylhydrazone (CA INDEX NAME)

L38 ANSWER 60 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1981:462138 CAPLUS
DOCUMENT NUMBER: 95:62138
ORIGINAL REFERENCE NO.: 95:10499a,10502a
TITLE: Synthesis of theophylline derivatives of potential antitubercular activity
AUTHOR(S): Ashour, F. A.; Habib, N. S.
CORPORATE SOURCE: Fac. Pharm., Univ. Alexandria, Alexandria, Egypt
SOURCE: Scientia Pharmaceutica (1981), 49(1), 38-42
CODEN: SCPHA4; ISSN: 0036-8709
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



I

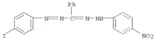
AB Twenty title compds. I (R = Me, Ph; R1 = p-C6H4SO2NH2, p-C6H4CO2Et, m-MeC6H4, p-ClC6H4, etc.) were prepared by reaction of the acetonyl or phenacyltheophylline with R1NHNH2.
IT 78491-56-2P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 78491-56-2 CAPLUS
CN 1H-Purine-2,6-dione,
3,7-dihydro-7-[2-[2-(4-iodophenyl)hydrazinylidene]-2-phenylethyl]-1,3-dimethyl- (CA INDEX NAME)



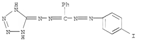
L38 ANSWER 61 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1981:183340 CAPLUS
DOCUMENT NUMBER: 94:183340
ORIGINAL REFERENCE NO.: 94:29879a,29882a
TITLE: Photographic development
PATENT ASSIGNEE(S): Konishiroku Photo Industry Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 55113043	A	19800901	JP 1979-20320	19790223
PRIORITY APPLN. INFO.:			JP 1979-20320	19790223

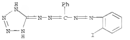
AB Ag halide photog. materials are developed at a relatively high temperature in
the presence of (1) a compound selected from R1N:NCR:NNHR2, R1N:NCR:NNHZNHN:CRN:R1, and R2NHN:C(N:NR)Z1C(N:NR):NNHR2 (R,R1,R2 = NO2, amino, CN, OH, CO2H, alkoxycarbonyl, SH, alkylthio, arylthio, alkyl, alkenyl, aryl, heterocyclic moiety; Z = arylene; Z1 = alkylene, arylene, aralkylene) and (2) ≥1 compound selected from R3Z2(CH2CH2O)nR4 (R3,R4 = H, alkoxycarbonyl, C1-20 alkyl, aryl, acyl, allyl; Z2 = O, S; n = 1-200)
and R5NR6R7 (R5,R6,R7 = H, C2-4 hydroxyalkyl). The above compds. may be added to the photog. emulsions. The method gives photog. materials with very little fog and good tone reproduction Thus, a Ag(Br,Cl,I) photog. emulsion containing 1,3,5-triphenylformazan 15 and diethylene glycol 60 mg/mol
Ag halide was prepared The photog. film prepared by using the emulsion was
sensitometrically exposed and developed (at 30°, 30 s) to give relative sensitivity and fog of 114 and 0.04, resp., vs. 100 and 0.08 for a control without the additives. The film also exhibited excellent tone reproduction
IT 7781-49-9
RL: USES (Uses)
(photog. fog inhibitor compns. containing)
RN 7781-49-9 CAPLUS
CN Methanone, [2-(4-iodophenyl)diazenyl]phenyl-, 2-(4-nitrophenyl)hydrazone (CA INDEX NAME)



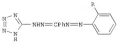
L38 ANSWER 62 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1980:433880 CAPLUS
DOCUMENT NUMBER: 93:33880
ORIGINAL REFERENCE NO.: 93:5477a,5480a
TITLE: Study of the structure and properties of tetrazole-containing formazans and betaines of tetrazolium based on data from their polarographic study
AUTHOR(S): Shchipanov, V. P.; Zabolotskaya, A. I.
CORPORATE SOURCE: Tyumen-Ind. Inst., Tyumen, USSR
SOURCE: Tezisy Dokl. - Vses. Soveshch. Polyarogr., 7th (1978),
80-1. Editor(s): Feoktistov, L. G. Izd. Nauka: Moscow, USSR.
CODEN: 42XVA8
DOCUMENT TYPE: Conference
LANGUAGE: Russian
AB The polarog. behavior of 1-(tetrazol-5-yl)-3-alkyl(aryl)-5-arylformazans (I) and of their corresponding oxidation products (betaines of tetrazolium,
(II)) was studied in DMF. The I were reduced in a 1-electron step, whereas the reduction of II proceeded in 3 steps, the 1st of which involved 2
electrons. The effect of substituents on E1/2 was studied.
IT 65146-99-8 65147-00-4
RL: RCT (Reactant); RACT (Reactant or reagent)
(reduction of, electrochem.)
RN 65146-99-8 CAPLUS
CN Methanone, [2-(4-iodophenyl)diazenyl]phenyl-, 2-(2H-tetrazol-5-yl)hydrazone (CA INDEX NAME)



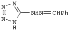
RN 65147-00-4 CAPLUS
CN Methanone, [2-(2-iodophenyl)diazenyl]phenyl-, 2-(2H-tetrazol-5-yl)hydrazone (CA INDEX NAME)



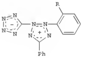
L38 ANSWER 63 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1979:474533 CAPLUS
DOCUMENT NUMBER: 91:74533
ORIGINAL REFERENCE NO.: 91:12049a,12052a
TITLE: Tetrazole derivatives. XXI. 1-(5-Tetrazolyl)-3-phenyl-5-c-R-phenylformazans and tetrazolium salts. Structure of tetrazolyl-containing formazans
AUTHOR(S): Shchipanov, V. P.; Ershov, V. A.; Mudretsova, I. I.
CORPORATE SOURCE: Tyumen. Ind. Inst., Tyumen, USSR
SOURCE: Zhurnal Organicheskoi Khimii (1979), 15(3), 628-37
CODEN: ZORKAE; ISSN: 0514-7492
DOCUMENT TYPE: Journal
LANGUAGE: Russian
GI



I

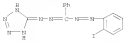


II

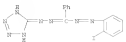


III

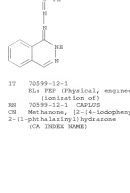
AB The title compds. I (R = H, Cl, Br, iodo, Me, OH) were prepared in 90-100%
yields by treatment of the hydrazone II with o-RC6H4N2+Cl-. Oxidation of I
by K3Fe(CN)6 gave 62-88% III (R = Cl, Br, iodo, Me, OH). Conformations were determined by UV spectra and the UV spectra for metal complexes of I with
Ni, Cu, Co were also determined
IT 65147-00-4D, transition metal complexes
RL: PRP (Properties)
(UV spectrum of)
RN 65147-00-4 CAPLUS
CN Methanone, [2-(2-iodophenyl)diazenyl]phenyl-, 2-(2H-tetrazol-5-yl)hydrazone (CA INDEX NAME)



IT 65147-90-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and oxidation by potassium ferricyanide)
RN 65147-90-4 CAPLUS
CN Methanone, [2-[2-iodophenyl)diazenyl]phenyl-, 2-(2H-tetrazol-5-yl)hydrazone (CA INDEX NAME)

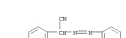


ACCESSION NUMBER: 1979:428189 CAPLUS
DOCUMENT NUMBER: 91:28189
ORIGINAL REFERENCE NO.: 91:4539a,4542a
TITLE: Spectrophotometric study of the reactions of the nickel(II) ion with 1-(1-phthalazyl)-3,5-diphenylformazan
AUTHOR(S): Dubnina, L. F.; Podchainova, V. N.; Sedov, Yu. A.
CORPORATE SOURCE: USSR
SOURCE: Zhurnal Obshchei Khimii (1979), 49(4), 876-9
CODEN: ZOKHA4; ISSN: 0044-460X
DOCUMENT TYPE: Journal
LANGUAGE: Russian
AB Stability consts. for a series of Ni2+ complexes with a series of ligands (L = CH3THI-BH-N=CPh-NH-C6H4X-p(p-X = H, Me, I, OMe, MeCH, COOH, NO2)) were determined spectrophotometrically. Metal:ligand ratio are 1:1 except for X = H, NO2.
IT 70599-12-1DP, nickel complexes
RL: FORM (Formation, nonpreparative); PREP (Preparation)
(formation of)
RN 70599-12-1 CAPLUS
CN Methanone, [2-(4-iodophenyl)diazenyl]phenyl-, 2-(1-phthalazinyl)hydrazone (CA INDEX NAME)



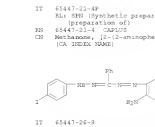
IT 70599-12-1
RL: PEP (Physical, engineering or chemical process); PROC (Process)
(ionization of)
RN 70599-12-1 CAPLUS
CN Methanone, [2-(4-iodophenyl)diazenyl]phenyl-, 2-(1-phthalazinyl)hydrazone (CA INDEX NAME)

ACCESSION NUMBER: 1976:512264 CAPLUS
DOCUMENT NUMBER: 89:112264
ORIGINAL REFERENCE NO.: 89:17339a,17342a
TITLE: Applicability of the Hammett equation in a-(p-substituted phenylazo)-p-nitrobenzylcyanides
AUTHOR(S): Bhaskare, C. K.; Mukhedkar, A. J.
CORPORATE SOURCE: Shivaji Univ., Kolhapur, India
SOURCE: Journal of Shivaji University: Science (1976), 16, 57-60
CODEN: JSUSDA; ISSN: 0250-5347
DOCUMENT TYPE: Journal
LANGUAGE: English
GI

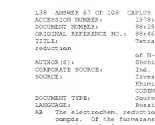


AB The pka values of azo dyes (I), prepared by coupling p-nitrobenzyl cyanide [555-21-5] with diazotized aniline and p-substituted anilines, were 9.05 (R = NO2), 10.06 (Cl) 10.19 (Br), 10.46 (I), 10.62 (F), 10.64 (H), 11.15 (Me), 10.88 (OEt), and 11.18 (OMe) in 50% MeOH-H2O mixture and showed a linear relation with Hammett σ functions. The high molar absorbance (ε = 1.6 × 104 to 4.7 × 104) and well separated absorption maximum for the acidic (mol. form (.apprx.400 nm) and basic (ionic) form (.apprx.560 nm) suggest that I may be used as acid-base indicators.
IT 66830-67-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation, ionization constant and spectrum of)
RN 66830-67-3 CAPLUS
CN Benzeneacetonitrile, a-[2-[4-iodophenyl)diazenyl]-4-nitro- (CA INDEX NAME)

L38 ANSWER 66 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1978:50584 CAPLUS
DOCUMENT NUMBER: 88:50584
ORIGINAL REFERENCE NO.: 88:7933a,7936a
TITLE: Multidentate formazans. V. 1-(o-Aminophenyl)-3,5-diarylformazans
AUTHOR(S): Ostrovskaya, V. N.; Dziemko, V. M.; Shukova, T. E.
CORPORATE SOURCE: USSR
SOURCE: Zhurnal Obshchei Khimii (1977), 47(10), 2351-5
CODEN: ZOKHA4; ISSN: 0044-460X
DOCUMENT TYPE: Journal
LANGUAGE: Russian
OTHER SOURCE(S): CASREACT 88:50584
AB KC6H4NHN:CPhN:NC6H4NH2-o (R = H, p-Me,o,p-MeO, p-I, p-Br, o-, p-Cl, p-O2N) were obtained in 71-94% yields by treatment of o-phthalimidobenzenediazonium chloride with PhCH:NNHC6H4R to give 24-94% intermediate phthalimidophenylformazans which were heated with N2H4.H2O 3-4 min at 115°.
IT 65447-16-7
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and hydrazinolysis of)
RN 65447-16-7 CAPLUS
CN 1H-Isoindole-1,3(2H)-dione, 2-[2-[2-[2-(4-iodophenyl)hydrazinylidene]phenylmethyl]diazenyl]- (CA INDEX NAME)

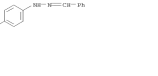


IT 65447-21-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 65447-21-4 CAPLUS
CN Methanone, [2-[2-aminophenyl]diazenyl]phenyl-, 2-(4-iodophenyl)hydrazone (CA INDEX NAME)

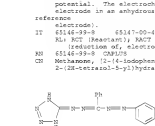


IT 65447-26-9
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with phthalimidobenzenediazonium chloride)

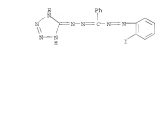
L38 ANSWER 66 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)
RN 65447-26-9 CAPLUS
CN Benzaldehyde, 2-(4-iodophenyl)hydrazone (CA INDEX NAME)



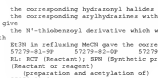
L38 ANSWER 67 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1978:29586 CAPLUS
DOCUMENT NUMBER: 88:29586
ORIGINAL REFERENCE NO.: 88:4615a,4619a
TITLE: Tetrazole derivatives. 18. Electrochemical reduction of N-tetrazolylformazans
AUTHOR(S): Shchipanov, V. P.; Zabolotskaya, A. I.
CORPORATE SOURCE: Ind. Inst., Tyumen, USSR
SOURCE: Izvestiya Vysshikh Uchebnykh Zavedenii, Khimiya i Khimicheskaya Tekhnologiya (1977), 20(10), 1520-24
CODEN: IVUKAN; ISSN: 0579-2991
DOCUMENT TYPE: Journal
LANGUAGE: Russian
AB The electrochem. reduction was studied of N-tetrazolylformazans and model compds. Of the formazans containing alkyl or Ph substituents in the meso position, the latter are significantly more easily reduced. The different substituents in Ph at the N5 atom of the formazan chain, with the exception of strong electron donors, have little effect on the reduction potential. The electrochem. reduction was carried out on a dropping Hg electrode in an anhydrous DMF solution at 0 to -2.5 V (vs. a Hg pool reference electrode).
IT 65146-99-8 65147-00-4
RL: RCT (Reactant); RACT (Reactant or reagent)
(reduction of, electrochem., in anhydrous DMF)
RN 65146-99-8 CAPLUS
CN Methanone, [2-[4-iodophenyl]diazenyl]phenyl-, 2-(2H-tetrazol-5-yl)hydrazone (CA INDEX NAME)



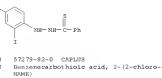
RN 65147-00-4 CAPLUS
CN Methanone, [2-[2-iodophenyl]diazenyl]phenyl-, 2-(2H-tetrazol-5-yl)hydrazone (CA INDEX NAME)



L38 ANSWER 68 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1975:564138 CAPLUS
DOCUMENT NUMBER: 83:164138
ORIGINAL REFERENCE NO.: 83:25759a,25762a
TITLE: Synthesis of 1H-4,1,2-benzothiadiazines from substituted N-acetyl-N-aryl-N'-thioarylhydrazines
AUTHOR(S): Callaghan, Patrick D.; Gibson, Martin S.; Elliott, Arthur J.
CORPORATE SOURCE: Dep. Chem., Brook Univ., St. Catharines, ON, Can.
SOURCE: Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1972-1999) (1975), (14), 1386-90
CODEN: JCPRB4; ISSN: 0300-922X
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 83:164138
GI For diagram(s), see printed CA Issue.
AB The thioacylhydrazines I (R = H, R1 = R2 = Br, F, I; R = H, R1 = Br, R2 = CF3, SO2NMe2, CN; R = OMe, Cl5, R1 = R2 = Br) were prepared by treatment of the corresponding hydrazonyl halides with AcS- in MeCN or by treatment of the corresponding arylhydrazines with PhCH2CH2COCl in alkaline solution to give the N'-thiobenzoyl derivative which was then acetylated. Treatment of I with EtSN in refluxing MeCN gave the corresponding benzothiadiazines II.
IT 57279-81-9P 57279-82-0P 57279-83-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and acetylation of)
RN 57279-81-9 CAPLUS
CN Benzenecarbothioic acid, 2-(2,4-diiodophenyl)hydrazide (CA INDEX NAME)

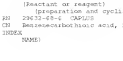


RN 57279-82-0 CAPLUS
CN Benzenecarbothioic acid, 2-(2-chloro-4-iodophenyl)hydrazide (CA INDEX NAME)

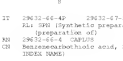


RN 57279-83-1 CAPLUS
CN Benzenecarbothioic acid, 2-(2-bromo-4-iodophenyl)hydrazide (CA INDEX NAME)

IT 29632-68-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and cyclization of)
RN 29632-68-6 CAPLUS
CN Benzeneacetic acid, 2-acetyl-2-(2,4-dinitrophenyl)hydrazide (CA INDEX NAME)

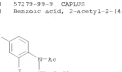


IT 29632-64-2P 29632-67-5P 57279-99-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 29632-64-2 CAPLUS
CN Benzeneacetic acid, 2-acetyl-2-(2-chloro-4-iodophenyl)hydrazide (CA INDEX NAME)

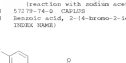


RN 29632-67-5 CAPLUS
CN Benzeneacetic acid, 2-acetyl-2-(2-bromo-4-iodophenyl)hydrazide (CA INDEX NAME)

RN 57279-99-9 CAPLUS
CN Benzoic acid, 2-acetyl-2-(4-bromo-2-iodophenyl)hydrazide (CA INDEX NAME)



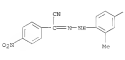
IT 57279-74-0
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction with sodium acetate)
RN 57279-74-0 CAPLUS
CN Benzoic acid, 2-(4-bromo-2-iodophenyl)hydrazide, hydrochloride (1:1) (CA INDEX NAME)



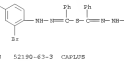
● HCl

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

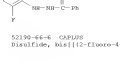
ACCESSION NUMBER: 1975:507663 CAPLUS
DOCUMENT NUMBER: 83:107683
ORIGINAL REFERENCE NO.: 83:18807a,18810a
TITLE: New acid-base indicators. II. α-(2-methyl-4-iodophenylhydrazono)-p-nitrobenzyl cyanide as a new acid-base indicator
AUTHOR(S): Bhaskare, Chandrakant K.; Kavatkar, Sunalini G.
CORPORATE SOURCE: Dep. Chem., Shivaji Univ., Kolhapur, India
SOURCE: Journal of Shivaji University (1973), 6(12), 117-20
CODEN: JSHUAN; ISSN: 0368-4199
DOCUMENT TYPE: Journal
LANGUAGE: English
GI For diagram(s), see printed CA Issue.
AB The compound α-[2-methyl-4-iodophenylhydrazono]-p-nitrobenzyl cyanide (I) was synthesized, for possible use as an acid-base indicator, by diazotization of 2-methyl-4-iodoaniline and coupling with p-nitrobenzoyl cyanide; I was characterized by elemental anal. and by paper chromatog. The pKa values of I, determined photometrically in 80%, 75:25, 50:50, and 25:75% Me2CO-H2O, 75:25, 50:50, and 25:75% EtOH-H2O, and 75:25, 50:50, and 25:75% MeOH-H2O were 12.6, 9.26, 9.48, 10.78, 9.70, 9.59, 11.35, 10.24, 10.22, and 13.28, resp. The absorption maximum of the acidic form at different pH (8.05-12.2) were 400-406 nm, and the absorption maximum of the basic form at the same pH range were 540-565 nm. The spectra of I at different pH showed 1 isosbestic point. The indicator was suitable for titration of weak acids in mixed aqueous-organic solvent media.
IT 57062-98-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and use of, as acid-base indicator in mixed aqueous organic solvent solution)
RN 57062-98-3 CAPLUS
CN Benzeneacetonitrile, α-[2-(4-iodo-2-methylphenyl)hydrazinylidene]-4-nitro- (CA INDEX NAME)



ACCESSION NUMBER: 1974:132976 CAPLUS
DOCUMENT NUMBER: 80:132976
ORIGINAL REFERENCE NO.: 80:21437a,21440a
TITLE: Routes to N-aryl-N'-thioaroylhydrazines and related syn- and unsym-hydrazonyl sulfides and a note on the so-called N-phenyl-N'-thiobenzoylidimide
AUTHOR(S): Wolkoff, P.; Hammerum, S.; Callaghan, P. D.; Gibson, M. S.
CORPORATE SOURCE: H. C. Orsted Inst., Univ. Copenhagen, Copenhagen, Den.
SOURCE: Canadian Journal of Chemistry (1974), 52(6), 879-83
CODEN: CJCHAG; ISSN: 0008-4042
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Aromatic hydrazonyl halides RCX:NNHEt treated successively with EtN and RSR-EtN, give N-aryl-N'-thioaroylhydrazines RCSNNHEt (I) as primary products, which can be isolated in many cases. Depending on conditions, further reaction may occur to give syn-hydrazonyl sulfides. Both syn- and unsym-hydrazonyl sulfides are available from reaction of appropriate hydrazonyl halides N-aryl-N'-thioaroylhydrazines in presence of EtN. The product of oxidation of I (R = R1 = Ph) under various conditions is confirmed as the corresponding hydrazonyl disulfide rather than N-phenyl N'-thiobenzoylidimide.
IT 52190-60-0P 52190-63-3P 52190-66-6P
52214-70-7P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 52190-60-0 CAPLUS
CN Benzenecarbohydrazonothioic acid, N-(2-bromo-4-iodophenyl)-, anhydrosulfide with N-(2-fluoro-4-iodophenyl)benzenecarbohydrazonothioic acid (CA INDEX NAME)

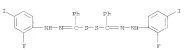


RN 52190-63-3 CAPLUS
CN Benzenecarbothioic acid, 2-(2-fluoro-4-iodophenyl)hydrazide (CA INDEX NAME)

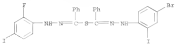


RN 52190-66-6 CAPLUS
CN Disulfide, bis[[(2-fluoro-4-iodophenyl)hydrazono]phenylmethyl] (9CI) (CA

L38 ANSWER 70 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)
INDEX NAME)



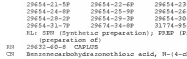
RN 52214-70-7 CAPLUS
CN Benzenecarbohydrazonothioic acid, N-(4-bromo-2-iodophenyl)-, anhydrosulfide with N-(2-fluoro-4-iodophenyl)benzenecarbohydrazonothioic acid (CA INDEX NAME)



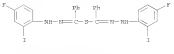
L38 ANSWER 72 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1972:59712 CAPLUS
DOCUMENT NUMBER: 76:59712
ORIGINAL REFERENCE NO.: 76:9461a,9464a
TITLE: Chemistry of the o-iodophenyl radical from the thermal decomposition of o-iodophenylazotriphenylmethane and its role in the formation of benzyne from o-iodo substituted N-nitrosoanilides
AUTHOR(S): Clark, George W., III
CORPORATE SOURCE: Univ. Rochester, Rochester, NY, USA
SOURCE: (1971) 129 pp. Avail.: Univ. Microfilms, Ann, Arbor, Mich., Order No. 71-22,290
From: Diss. Abst. Int. B 1971, 32(3), 1442
DOCUMENT TYPE: Dissertation
LANGUAGE: English
AB (Unavailable
IT 27872-05-5
RL: RCT (Reactant; RACT (Reactant or reagent)
(thermal decomposition of)
RN 27872-05-5 CAPLUS
CN Diazene, 1-(2-iodophenyl)-2-(triphenylmethyl)- (CA INDEX NAME)

L38 ANSWER 73 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1974:59898 CAPLUS
DOCUMENT NUMBER: 80:59898
ORIGINAL REFERENCE NO.: 80:9713a,9716a
TITLE: Tetrazole derivatives. VIII. Synthesis and properties of 1-(5-tetrazolyl)-3-phenyl-5-arylformazans
AUTHOR(S): Shchipanov, V. P.; Krashina, K. I.; Shachilova, A. A.
CORPORATE SOURCE: Tyumen. Ind. Inst., Tyumen, USSR
SOURCE: Khimiya Geterotsiklicheskikh Soedinenii (1973), (11), 1578-9
CODEN: KGSSAQ; ISSN: 0132-6244
DOCUMENT TYPE: Journal
LANGUAGE: Russian
OS For diagram(s), see printed CA issue.
AB Tetrazolylformazans I (R = H, Me, Cl, Br, iodo, NO2, m-NO2) were prepared in 74-100% yields by treatment of 5-(benzylidenehydrazino)tetrazole with an appropriate arenediazonium chloride in the presence of base. Oxidation of I by K3-Fe(CN)6 in NaOH gave 44-97% tetrazoles [II].
IT 51421-85-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 51421-85-3 CAPLUS
CN Methanone, phenyl[2-(2H-tetrazol-5-yl)diazenyl]-, 2-(4-iodophenyl)hydrazone (CA INDEX NAME)

L38 ANSWER 74 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1970:509448 CAPLUS
DOCUMENT NUMBER: 73:109448
ORIGINAL REFERENCE NO.: 73:17811a,17814a
TITLE: Synthesis of N-4-chlorobenzylidene-N'-2,4- and 4,2-halogenoiodophenyl)hydrazines and their reaction with thioacetate ion
AUTHOR(S): Callaghan, P. D.; Gibson, M. S.
CORPORATE SOURCE: Dep. Chem., Univ. Manchester Inst. Sci. Technol., Manchester, UK
SOURCE: Journal of the Chemical Society [Section] C: Organic (1970), (15), 2106-11
CODEN: JSOOAG; ISSN: 0022-4952
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 73:109448
AB Problems of displacement of iodine from aromatic nuclei are avoided in the synthesis of the title compds. from o- and p-halo anilines. Treatment of the title compds. with potassium thioacetate gives, according to circumstances, one or more of the following: the 4-acetyl-1-halo[odo]-2-phenyl-4H-1,3,4-benzothiadiazine, by a process involving displacement of o-halogen (except when this is Cl); the bis[4-(2,4- or 4,2-halo[odo]phenylhydrazono)-benzyl] sulfide; the N-acetyl-N-(2,4- or 4,2-halo[odo]phenyl)-N'-thiobenzoylhydrazine.
IT 29632-60-8P 29632-61-9P 29632-65-3P
29632-66-4P 29632-67-5P 29632-68-6P
29632-69-7P 29632-70-0P 29632-71-1P
29632-75-5P 29654-04-4P 29654-05-5P
29654-06-6P 29654-09-9P 29654-10-2P
29654-12-4P 29654-13-5P 29654-14-6P
29654-15-7P 29654-16-8P 29654-17-9P
29654-18-0P 29654-19-1P 29654-20-4P
29654-21-5P 29654-22-6P 29654-23-7P
29654-24-8P 29654-25-9P 29654-26-0P
29654-29-3P 29654-30-6P 29654-32-8P
29654-33-7P 29674-34-8P 31774-95-5P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 29632-60-8 CAPLUS
CN Benzenecarbohydrazonothioic acid, N-(4-chloro-2-iodophenyl)-, 1,1'-anhydrosulfide (CA INDEX NAME)



RN 29632-61-9 CAPLUS
CN Benzenecarbohydrazonothioic acid, N-(4-fluoro-2-iodophenyl)-, 1,1'-anhydrosulfide (CA INDEX NAME)

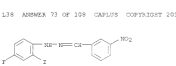


RN 29632-65-3 CAPLUS
CN Benzenecarbothioic acid, 2-acetyl-2-(2-fluoro-4-iodophenyl)hydrazide (CA INDEX NAME)

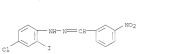
RN 29632-66-4 CAPLUS
CN Benzenecarbothioic acid, 2-acetyl-2-(2-chloro-4-iodophenyl)hydrazide (CA INDEX NAME)

RN 29632-67-5 CAPLUS
CN Benzenecarbothioic acid, 2-acetyl-2-(2-bromo-4-iodophenyl)hydrazide (CA INDEX NAME)

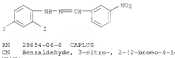
RN 29632-68-6 CAPLUS
CN Benzenecarbothioic acid, 2-acetyl-2-(2,4-diiodophenyl)hydrazide (CA INDEX NAME)



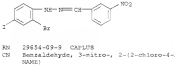
RN 29634-64-4 CAPLUS
CN Benzaldehyde, 3-nitro-, 2-(4-chloro-2-iodophenyl)hydrazone (CA INDEX NAME)



RN 29634-65-5 CAPLUS
CN Benzaldehyde, 3-nitro-, 2-(2,4-diiodophenyl)hydrazone (CA INDEX NAME)



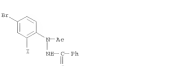
RN 29634-66-6 CAPLUS
CN Benzaldehyde, 3-nitro-, 2-(2-bromo-4-iodophenyl)hydrazone (CA INDEX NAME)



RN 29634-69-9 CAPLUS
CN Benzaldehyde, 3-nitro-, 2-(2-chloro-4-iodophenyl)hydrazone (CA INDEX NAME)

RN 29634-10-2 CAPLUS
CN Benzaldehyde, 3-nitro-, 2-(2-fluoro-4-iodophenyl)hydrazone (CA INDEX NAME)

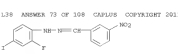
RN 29632-69-7 CAPLUS
CN Benzenecarbothioic acid, 2-acetyl-2-(4-bromo-2-iodophenyl)hydrazide (CA INDEX NAME)



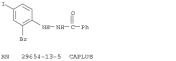
RN 29632-70-0 CAPLUS
CN Benzenecarbothioic acid, 2-acetyl-2-(4-chloro-2-iodophenyl)hydrazide (CA INDEX NAME)

RN 29632-71-1 CAPLUS
CN Benzenecarbothioic acid, 2-acetyl-2-(4-fluoro-2-iodophenyl)hydrazide (CA INDEX NAME)

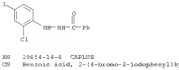
RN 29632-75-5 CAPLUS
CN Benzaldehyde, 3-nitro-, 2-(4-fluoro-2-iodophenyl)hydrazone (CA INDEX NAME)



RN 29654-12-4 CAPLUS
CN Benzoic acid, 2-(2-bromo-4-iodophenyl)hydrazide (CA INDEX NAME)



RN 29654-13-5 CAPLUS
CN Benzoic acid, 2-(2-chloro-4-iodophenyl)hydrazide (CA INDEX NAME)



RN 29654-14-6 CAPLUS
CN Benzoic acid, 2-(4-bromo-2-iodophenyl)hydrazide (CA INDEX NAME)

RN 29654-15-7 CAPLUS
CN Benzoic acid, 2-(4-chloro-2-iodophenyl)hydrazide (CA INDEX NAME)

RN 29654-16-8 CAPLUS
CN Benzoic acid, 2-(4-fluoro-2-iodophenyl)hydrazide (CA INDEX NAME)

RN 29654-17-9 CAPLUS
CN Benzoic acid, 2-(2-fluoro-4-iodophenyl)hydrazide (CA INDEX NAME)

RN 29654-18-0 CAPLUS
CN Benzoic acid, 2-(2,4-diiodophenyl)hydrazide (CA INDEX NAME)

RN 29654-19-1 CAPLUS
CN Benzoic acid, 2-(4-iodophenyl)hydrazide (CA INDEX NAME)

RN 29654-20-4 CAPLUS
CN Benzenecarbohydrazonoyl chloride, N-(4-iodophenyl)- (CA INDEX NAME)

RN 29654-21-5 CAPLUS
CN Benzenecarbohydrazonoyl chloride, N-(2-fluoro-4-iodophenyl)- (CA INDEX

RN 29654-26-0 CAPLUS
CN Benzenecarbohydrazonoyl chloride, N-(4-fluoro-2-iodophenyl)- (CA INDEX NAME)

RN 29654-28-2 CAPLUS
CN Benzenecarbohydrazonothioic acid, N-(2-chloro-4-iodophenyl)-, 1,1'-anhydrosulfide (CA INDEX NAME)

RN 29654-29-3 CAPLUS
CN Benzenecarbohydrazonothioic acid, N-(2-bromo-4-iodophenyl)-, 1,1'-anhydrosulfide (CA INDEX NAME)

RN 29654-30-6 CAPLUS
CN Benzenecarbohydrazonothioic acid, N-(2,4-diiodophenyl)-, 1,1'-anhydrosulfide (CA INDEX NAME)

RN 29654-22-6 CAPLUS
CN Benzenecarbohydrazonoyl chloride, N-(2-bromo-4-iodophenyl)- (CA INDEX NAME)

RN 29654-23-7 CAPLUS
CN Benzenecarbohydrazonoyl chloride, N-(2,4-diiodophenyl)- (CA INDEX NAME)

RN 29654-24-8 CAPLUS
CN Benzenecarbohydrazonoyl chloride, N-(4-bromo-2-iodophenyl)- (CA INDEX NAME)

RN 29654-25-9 CAPLUS
CN Benzenecarbohydrazonoyl chloride, N-(4-chloro-2-iodophenyl)- (CA INDEX NAME)

RN 29654-31-7 CAPLUS
CN Benzenecarbohydrazonothioic acid, N-(4-bromo-2-iodophenyl)-, 1,1'-anhydrosulfide (CA INDEX NAME)

RN 29674-34-8 CAPLUS
CN Benzenecarbohydrazonoyl chloride, N-(2-chloro-4-iodophenyl)- (CA INDEX NAME)

RN 31774-95-5 CAPLUS
CN Benzaldehyde, 3-nitro-, 2-(4-bromo-2-iodophenyl)hydrazone (CA INDEX NAME)

OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD

(2 CITINGS)

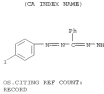
L38 ANSWER 74 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1970:476757 CAPLUS
DOCUMENT NUMBER: 73:76757
ORIGINAL REFERENCE NO.: 73:12547a,12550a
TITLE: 2-Iodophenyl radicals: decomposition of 2-iodophenylazotriphenylmethane
AUTHOR(S): Clark, George W.; Kampmeier, Jack A.
CORPORATE SOURCE: Dep. of Chem., Univ. of Rochester, Rochester, NY, USA
SOURCE: Journal of the Chemical Society [Section] D: Chemical Communications (1970), (16), 996-7
CODEN: CCUDAO; ISSN: 0577-6171
DOCUMENT TYPE: Journal
LANGUAGE: English
OS For diagram(s), see printed CA Issue.
AB The homolytic de decomposition of the title compound (I) gives 2-iodophenyl radicals. A solution of I in C6H6 is heated at 72.5° to give 2'-(2-iodophenyl)-4'-(triphenylmethyl)-2,5-cyclohexadiene (II) as the major product. II is also obtained by the irradiation (254 nm and >310 nm) of I in C6H6. 2-Iodobiphenyl and o-IC6H4I are also obtained.
IT 27872-05-5
RL: RCT (Reactant); RACT (Reactant or reagent)
(decomposition of, iodophenyl radicals by)
RN 27872-05-5 CAPLUS
CN Diazene, 1-[2-iodophenyl]-2-[triphenylmethyl]- (CA INDEX NAME)

L38 ANSWER 75 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1970:97663 CAPLUS
DOCUMENT NUMBER: 72:97663
ORIGINAL REFERENCE NO.: 72:17308a,17308a
TITLE: Benzaldehyde phenylhydrazone against yeast-like fungi
AUTHOR(S): Mufti, Mahmoud
CORPORATE SOURCE: Dep. Med. Microbiol., Schering A.-G., Berlin, Fed. Rep. Ger.
SOURCE: Quarterly Journal of Crude Drug Research (1969), 9(4), 1455-9
CODEN: QJDRA5; ISSN: 0033-5525
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Phenylhydrazones (I) were tested against 4 species of yeast-like fungi which became very refractory to treatment: Candida albicans, Histoplasma capsulatum, Blastomyces dermatitidis, and Coccidioides immitis. A series of I was prepared, in which the phenol ring was halogenated in some, and the benzaldehyde ring was halogenated in others. The effects on the 4 species were similar and C. albicans suffered as a test organism. The most active compds. were the benzaldehyde halophenylhydrazones, i.e., with halogen on the 1 ring, for example, benzaldehyde p-bromophenylhydrazone, with min. inhibitory concentration (MIC) of 5-10 γ/ml. The most significant increase in activity or decrease in MIC came with NH2 groups on the benzaldehyde ring, e.g., 4-dimethylaminobenzaldehyde 4-bromophenylhydrazone with MIC of 0.1-1 γ/ml. Of the various halogens, the fungistatic potency followed the order Br > Cl > I > F. Introduction of a 2nd halogen atom in the 7h ring did not decrease MIC values. Introduction of the MeO, EtO, OH, and oloxy groups into the benzaldehyde ring decreased fungistatic activity considerably as did alkyl substituents (e.g., iso-Pr). The LD50 values were determined for oral and IV administration to mice of 20 g average weight. Animal toxicity increased with halogen content following the order: I > Cl > F > Br. In addition to studies on the 30 I compds., and pyrrole and acetophenone deriv., results are reported with 1,8C1 and its 3-bromo derivative
IT 27246-86-2 27246-92-0 27246-93-1
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study) (fungicidal activity of)
RN 27246-86-2 CAPLUS
CN Benzaldehyde, 3-chloro-, 2-(4-iodophenyl)hydrazone (CA INDEX NAME)

L38 ANSWER 75 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)
RN 27246-92-0 CAPLUS
CN Benzaldehyde, 4-ethoxy-, 2-(4-iodophenyl)hydrazone (CA INDEX NAME)

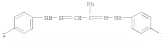
RN 27246-93-1 CAPLUS
CN Benzaldehyde, 2-chloro-, 2-(4-iodophenyl)hydrazone (CA INDEX NAME)

L38 ANSWER 76 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1969:92994 CAPLUS
DOCUMENT NUMBER: 70:92994
ORIGINAL REFERENCE NO.: 70:17389a,17390a
TITLE: Thin-layer chromatography of tetrazolium salts and their formazans
AUTHOR(S): Tyrer, J. H.; Eadie, M. J.; Hooper, W. D.
CORPORATE SOURCE: Roy. Brisbane Hosp., Brisbane, Australia
SOURCE: Journal of Chromatography (1969), 39(3), 212-17
CODEN: JOCRAM; ISSN: 0021-9673
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Tetrazolium salts (I) and their formazan reduction products can be separated by thin-layer chromatog. (TLC) on silica gel G plates. I were developed by ascending chromatog. in 78:17:5 BuOH-H2O-HOAc, at 37°. The spots were detected by spraying with alkaline Na azocuhate solution or by exposure to (NH4)2S vapor, to form the colored formazans. The formazans, formed by strong reduction of I on the plates with (NH4)2S were separated by an ascending development in 2:3 hexane-ClCH2Cl at 37°. Rf data are given for triphenyltetrazolium, iodonitrotetrazolium, monothiazolylterazolium, tetrazolium violet, neotetrazolium, blue tetrazolium, nitroblue tetrazolium, tetranitroblue tetrazolium, piperonyltetrazolium blue, and p-anisyltetrazolium blue and for the corresponding formazans. If I are not reduced under strong conditions, to give formazans for subsequent TLC, tailing can occur during TLC and, apparently, free radical intermediates can be formed, which can be separated chromatographically from the formazans also produced. The method is suitable for detecting contaminants in com. I samples.
IT 7781-69-9
RL: ANT (Analytical study) (chromatog. of)
RN 7781-69-9 CAPLUS
CN Methanone, [2-(4-iodophenyl)diazenyl]phenyl-, 2-(4-nitrophenyl)hydrazone (CA INDEX NAME)

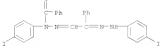


OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L38 ANSWER 77 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1968:476826 CAPLUS
DOCUMENT NUMBER: 69:76826
ORIGINAL REFERENCE NO.: 69:14345a,14346a
TITLE: Reactions of phenylglyoxal bis(arylhydrazones)
AUTHOR(S): El Khaden, H.; El-Sadik, M. M.; Mostafa, M. H.
CORPORATE SOURCE: Alexandria Univ., Alexandria, Egypt
SOURCE: Journal of the Chemical Society [Section] C: Organic (1968), (16), 2097-9
CODEN: JSOOAA; ISSN: 0022-4952
DOCUMENT TYPE: Journal
LANGUAGE: English
AB A number of phenyl-, and p-bromophenylglyoxal bis(arylhydrazones) were prepared
Their acetylation, benzoylation, and cyclization to 2,4-diaryl-1,2,3-triazoles were investigated. The uv and ir absorption data of the compds. prepared are given.
IT 20234-94-8P 20234-95-9P
RL: SPH (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 20234-94-8 CAPLUS
CN Benzeneacetaldehyde, a-[2-[4-(iodophenyl)hydrazinylidene]-, N-2-[4-(iodophenyl)hydrazone (CA INDEX NAME)

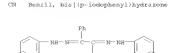


RN 20234-95-9 CAPLUS
CN Benzoic acid, 1-[4-(iodophenyl)-2-[2-[2-[4-(iodophenyl)hydrazinylidene]-2-phenylethylidene]hydrazide (CA INDEX NAME)

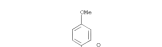


OS.CITING REF COUNT: 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD
(3 CITINGS)

L38 ANSWER 78 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1968:114514 CAPLUS
DOCUMENT NUMBER: 68:114514
ORIGINAL REFERENCE NO.: 68:22075a,22076a
TITLE: Reactions of benzil mono- and bis-arylhydrazones
AUTHOR(S): El Khaden, Hazzaz; El-Shafei, Sak; N.; Hathem, N. M.
CORPORATE SOURCE: Alexandria Univ., Alexandria, Egypt
SOURCE: Journal of the Chemical Society [Section] C: Organic (1968), (8), 949-51
CODEN: JSOOAA; ISSN: 0022-4952
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 68:114514
GI For diagram(s), see printed CA Issue.
AB A number of benzil and anisil mono- and bis-arylhydrazones were prepared
The behavior of the monohydrazones indicated their existence in a chelated form (I). The bisarylhydrazones were acetylated and also cyclized to 2,4,5 triaryl 1,2,3-triazoles (II), whose formation was studied. The uv and ir absorption data of the compds. prepared are given.
IT 18411-20-6P 18484-60-1P
RL: SPH (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 18411-20-6 CAPLUS
CN Benzil, bis[p-iodophenyl)hydrazone] (8CI) (CA INDEX NAME)

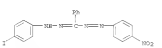


RN 18484-60-1 CAPLUS
CN p-Anisil, mono[(p-iodophenyl)hydrazone] (8CI) (CA INDEX NAME)

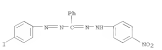


OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD
(2 CITINGS)

L38 ANSWER 79 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1966:499351 CAPLUS
DOCUMENT NUMBER: 65:99351
ORIGINAL REFERENCE NO.: 65:18580-e
TITLE: Iodonitroformazan.
1-(4-Iodophenyl)-5-(4-nitrophenyl)-3-phenylformazan
AUTHOR(S): Gatrovskaya, V. M.; Pryadishnikov, A. A.
SOURCE: Metody Polucheniya Khimicheskikh Reaktivov i Preparatov (1964), No. 8, 16-18
CODEN: MPRPAT; ISSN: 0539-5143
DOCUMENT TYPE: Journal
LANGUAGE: Russian
GI For diagram(s), see printed CA Issue.
AB 4-Iodoaniline (22 g.) in 450 cc. H2O and 30 cc. concentrated HCl was diazotized at 3-5° with 7.5 g. NaNO2 in 20 cc. H2O, the mixture filtered, and added in 30 min. to a filtered solution of the 4-nitrophenylhydrazone of phenylglyoxalic acid (24 g.) and 20 g. Na2CO3 in 700 cc. H2O, at 10°, while alkalizing with 24 g. FCO3, the whole stirred 3 hrs., and kept overnight. The precipitate that formed was filtered off, washed with H2O (70-5°), and dried at 65-70° to give crude title compound (I); after 3 extns. with boiling EtOH (2OO cc.) the residue (22 g.) was dissolved in 380 cc. pyridine (50°), H2O added to the filtrate, and the precipitate washed with boiling EtOH to give 17 g. I, m. 184-7° (decomposition), red-brown powder.
IT 136196-46-8P
RL: SPH (Synthetic preparation); PRP (Properties); PREP (Preparation)
(iodonitroformazan. 1-(4-iodophenyl)-3-(4-nitrophenyl)-3-phenylformazan)
RN 136196-46-8 CAPLUS
CN Methanone, [2-[4-nitrophenyl)diazenyl]phenyl-, 2-(4-iodophenyl)hydrazone (CA INDEX NAME)



IT 7781-49-9P, Toluene, a-[(p-Iodophenyl)azo]-a-[(p-nitrophenyl)hydrazono]-
RL: PREP (Preparation)
(preparation of)
RN 7781-49-9 CAPLUS
CN Methanone, [2-(4-iodophenyl)diazenyl]phenyl-, 2-(4-nitrophenyl)hydrazone (CA INDEX NAME)



L38 ANSWER 79 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)

L38 ANSWER 80 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1966:403502 CAPLUS
DOCUMENT NUMBER: 65:3502
ORIGINAL REFERENCE NO.: 65:556c-e
TITLE: Sulfuryl chloride chlorination of alkyl silanes. The electronic effect of some alkyl groups
AUTHOR(S): Nagai, Yoichiro; Machida, Noboru; Nujita, Toshihiko
CORPORATE SOURCE: Gunma Univ., Maebashi
SOURCE: Bulletin of the Chemical Society of Japan (1966), 39(2), 422
CODEN: BCSJA8; ISSN: 0009-2673
DOCUMENT TYPE: Journal
LANGUAGE: English
AB SO2Cl2 chlorination of RnSiCl3, RtMeSiCl2, RtSiMe2Cl, PrSiCl3, and BuSiCl3 has been studied competitively in the presence of Me2Si. The reactions were conducted in boiling CCl4 and the products were analyzed by gas chromatography over QF-1 Silicone Grease. The SiCl3 group exerts only the slightest influence on γ and δ C atoms. The β-position of RtSiMeCl2 is more reactive, and the β-position of RtSiCl3 is less reactive than ordinary R atoms. The SiCl3 group is electron-withdrawing and the SiMeCl2 group is electron-releasing in character. R or C atoms α to Si display a marked inactivity since the CR2 groups attached to Si have only 2 adjacent C-H bonds capable of stabilizing the incipient α-radicals by hyperconjugation.
IT 10269-07-5P, Benzaldehyde, (2,3,5,6-tetrafluoro-4-iodophenyl)hydrazone
RL: PREP (Preparation)
(preparation of)
RN 10269-07-5 CAPLUS
CN Benzaldehyde, 2-(2,3,5,6-tetrafluoro-4-iodophenyl)hydrazone (CA INDEX NAME)

L38 ANSWER 81 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1966:403501 CAPLUS
DOCUMENT NUMBER: 65:3501
ORIGINAL REFERENCE NO.: 65:556c
TITLE: Aromatic polyfluoro-compounds. XXXII. Isomer distributions in the nucleophilic replacement reactions of the pentafluorohalobenzenes
AUTHOR(S): Burdon, J.; Coe, P. L.; Marsh, C. R.; Tatlow, J. C.
CORPORATE SOURCE: Univ., Birmingham, UK
SOURCE: Tetrahedron (1966), 22(4), 1183-8
CODEN: TETRAB; ISSN: 0040-4020
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 65:3501
AB cf. CA 64, 12576c. The pentafluoro-halobenzenes react with nucleophiles mainly at the position para to the halogen; ortho replacement occurs to a lesser extent and diminishes in the order C6F5Cl > C6F5Br > C6F5I, approx. C6F5H. This is rationalized in terms of an electronic effect, which involves electron repulsion by halogens in π-electron systems and also by steric factors.
IT 10269-07-5P, Benzaldehyde, (2,3,5,6-tetrafluoro-4-iodophenyl)hydrazone
RL: PREP (Preparation)
(preparation of)
RN 10269-07-5 CAPLUS
CN Benzaldehyde, 2-(2,3,5,6-tetrafluoro-4-iodophenyl)hydrazone (CA INDEX NAME)

OS.CITING REF COUNT: 10 THERE ARE 10 CAPLUS RECORDS THAT CITE THIS RECORD (10 CITINGS)

L38 ANSWER 82 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1965:409895 CAPLUS
DOCUMENT NUMBER: 63:9895
ORIGINAL REFERENCE NO.: 63:1720f-h,1721a-b
TITLE: Iodobinitrobenzenes and their derivatives
AUTHOR(S): Dearcha, D. S.; Sharma, K. L.
CORPORATE SOURCE: Univ. Rajasthan, Jaipur
SOURCE: Journal of the Indian Chemical Society (1965), 42(2), 101-4
CODEN: JICSAK; ISSN: 0019-4522
DOCUMENT TYPE: Journal
LANGUAGE: English
GI For diagram(s), see printed CA Issue.
AB cf. CA 60, 5368e. Nitration of 5 g. 1,2-diiodo-4-nitrobenzene (I) by heating it on a boiling water bath for 4 hrs. with 13 ml. H2SO4 and 3.5 ml. fuming KNO3 gave 2 of the 3 isomers. The solid separated by pouring onto crushed ice was extracted with warm EtOH. The insoluble part (1.5 g.) gave 1,2-diiodo-3,4-dinitrobenzene (II), m. 184° (AcOH). The residue from the extract was dissolved in 1:1 mixture of CCl4 and petroleum ether which was cooled slightly, filtered to remove 0.6 g. II, and allowed to crystalline Six crystns. from CCl4-petroleum ether mixture gave 1.8 g. 1,2-diiodo-4,5-dinitrobenzene (III), m. 109°. III could be obtained by treatment of 2-iodo-4,6-dinitrophenylhydrazine with iodine in boiling EtOH. A mixture of 0.5 g. II, 0.35 g. o-aminophenol, and 0.4 g. NaOAc in 12 ml. EtOH was refluxed to give 5-iodo-2-nitrophenoxazine, m. 181° (EtOH). Reaction of II gave the following IV (reactant, derivative, m.p., crystal shape given): NH2, R = R1 = H, 151°, yellow flakes; aniline, R = H, R1 = Ph, 169°, red plates; o-toluidine, R = H, R1 = o-tolyl, 154°, yellow needles; p-anisidine, R = H, R1 = p-MeOC6H4, 173°, red flakes; dimethylamine, R = R1 = Me, 144°, orange red flakes; hydrazine hydrate R = H, R1 = NH2, 202°, orange red. The hydrazones of benzaldehyde and of acetone with IV (R = H, R1 = NH2) m. 241° and 213°, resp. The products obtained with III were the same as those obtained from 1 chloro-2-iodo-4,6-dinitrobenzene. II has ν 1534, 1515, 1368, and 1351 cm.-1 To 3,4-dichloro-1-iodobenzene (10 g.) in 42 ml. concentrated H2SO4 was added dropwise 28 ml. of fuming KNO3 at less than 10°. The mixture was then heated at 110° for 10 hrs. and poured onto ice, giving 7.2 g. yellow 3,4-dichloro-5-iodo-4,6-dinitrobenzene (V), m. 128° (EtOH). A mixture of 0.9 g. V, 2 ml. piperidine, and 1 g. NaOAc in 10 ml. EtOH was refluxed for 2 hrs. to give yellow 4-chloro-1,3-dinitro-5-piperidino-6,-dinitrobenzene, m. 142°. The same compound was obtained using 1,3,4-trichloro-2,6-dinitrobenzene. V (0.5 g.), 4 g. acetamide, and 2 g. NaOAc was heated for 1 hr. and the melt dissolved in 20 ml. strong NH4OH and heated at 100° for 2 hrs. with C. Acidification of the filtrate gave 3,4-dichloro-2,6-dinitrophenol, m. 168° (EtOH); acetyl derivative m. 129°. This was the same compound as obtained by dinitration of 3,4-dichlorophenol.
IT 1664-19-7P, Benzaldehyde, (2,3-diiodo-4-nitrophenyl)hydrazone
RL: PREP (Preparation)
(preparation of)

L38 ANSWER 82 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)
RN 1664-19-7 CAPLUS
CN Benzaldehyde, 2-(2,3-diiodo-4-nitrophenyl)hydrazone (CA INDEX NAME)

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L38 ANSWER 83 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1965:18993 CAPLUS
DOCUMENT NUMBER: 62:18990
ORIGINAL REFERENCE NO.: 62:3414e-e
TITLE: The mechanism of thermal ionization of air
AUTHOR(S): Bazhenova, T. V.; Lobanov, Yu. S.
SOURCE: Fiz. Gazdinam., Sbolatva Gaz. pri Vysokikh Temperaturakh, Akad. Nauk SSSR, Gos. Proizv. Kon. SSSR
po Energ. i Elektrifikatsii, Energ. Inst. (1964)
17-23
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
AB The mechanism of thermal ionization of air, maximum absorption time, and the
radio-wave attenuation coeffs. were analyzed on the basis of published data and theories. At 5000° K. and 0.1 atmosphere, the time in which a near equilibrium electron concentration is attained is 2·10-2 sec., which is 4
orders higher than the exptl. value. A comparison of calculated and published
data on the equilibrium and maximum values of electron concentration behind a shock wave
in air at 10-3 atmosphere and on the time of maximum absorption of radio waves at
various M (Mach number) showed that the leading process in the thermal
ionization of air at 3 < M < 12 is the double collision: N + O .dblarr. NO+ + e.
IT 93532-59-3, p-Anisaldehyde, (2-Iodo-4,6-dinitrophenyl)hydrazone
(ionization energy of, calcn. of)
RN 93532-59-3 CAPLUS
CN Benzaldehyde, 4-methoxy-, 2-(2-iodo-4,6-dinitrophenyl)hydrazone (CA INDEX
NAME)

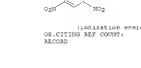
(ionization energy of, calcn. of

08.CITING REF COUNT: 7 THERE ARE 7 CAPLUS RECORDS THAT CITE THIS RECORD
(7 CITINGS)

L38 ANSWER 84 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1965:18989 CAPLUS
DOCUMENT NUMBER: 62:18989
ORIGINAL REFERENCE NO.: 62:3414b-d
TITLE: Calculation of ionization potentials for aromatic compounds
AUTHOR(S): Foffani, A.; Pignataro, S.; Cantone, B.; Grasso, F.
CORPORATE SOURCE: Univ. Catania, Italy
SOURCE: Seitschrift fuer Physikaliche Chemie (Muenchen, Germany) (1964), 42(3/4), 236-42
CODEN: ZPCFAO; ISSN: 0044-3336
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The Hall (CA 49, 50dd)-Franklin (CA 48, 1741fe) equivalent group orbitals method for calculating ionization potentials was applied to mols. of the above
named kind. A good general agreement to within a mean deviation of 0.1 ev. is obtained between exptl. and calculated figures. A reliable method is
developed for the evaluation of the ionization potential of nitro derivs
IT 93532-59-3, p-Anisaldehyde, (2-iodo-4,6-dinitrophenyl)hydrazone
(ionization energy of)
RN 93532-59-3 CAPLUS
CN Benzaldehyde, 4-methoxy-, 2-(2-iodo-4,6-dinitrophenyl)hydrazone (CA INDEX
NAME)

(ionization energy of, calcn. of

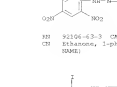
L38 ANSWER 85 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1965:18988 CAPLUS
DOCUMENT NUMBER: 62:18988
ORIGINAL REFERENCE NO.: 62:3414a-d
TITLE: Ionization potentials and substituent effects for aromatic carbonyl compounds
AUTHOR(S): Foffani, A.; Pignataro, S.; Cantone, B.; Grasso, F.
CORPORATE SOURCE: Univ. Catania, Italy
SOURCE: Seitschrift fuer Physikaliche Chemie (Muenchen, Germany) (1964), 42(3/4), 221-35
CODEN: ZPCFAO; ISSN: 0044-3336
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Mol. ionization potentials of several series of aromatic carbonyl compds. of the type XC6H4COY were measured. The effect of substituents on the ionization potentials is well correlated through electrophilic Brown σp+ substituent consts. (B. and Chamoto, CA 59, 9120f). The possible significance of the anomalous behavior of OH, CO2H, and CO2Me groups is discussed. The influence of the substituent groups on the relative energies of the fundamental and ionic mol. states involved in the
ionization process is considered in terms of electronic perturbations. Some exptl. evidence is given suggesting a preferential electron removal from the π-system in the conjugated carbonyl compds.
IT 93532-59-3, p-Anisaldehyde, (2-Iodo-4,6-dinitrophenyl)hydrazone
(ionization energy of)
RN 93532-59-3 CAPLUS
CN Benzaldehyde, 4-methoxy-, 2-(2-iodo-4,6-dinitrophenyl)hydrazone (CA INDEX
NAME)



(ionization energy of, calcn. of

L38 ANSWER 86 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1964:452485 CAPLUS
DOCUMENT NUMBER: 60:52485
ORIGINAL REFERENCE NO.: 60:9188d-e
TITLE: Haloditrophenylhydrazines and their condensation products
AUTHOR(S): Deuhra, D. S.; Sharma, H. L.
CORPORATE SOURCE: Univ. Rajasthan, Jalpur
SOURCE: Journal of the Indian Chemical Society (1963), 40(12),
1047-8
CODEN: JICSAE; ISSN: 0019-4522
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
AB A solution of 4.4 g. 2-fluoro-1-chloro-4,6-dinitrobenzene in 20 mL. EtOH was
treated with 5 mL. 50% N2H4.H2O at 40° overnight to give 2.5 g. 2-fluoro-4,6-dinitrophenylhydrazine, m. 111°. Similarly was prepared 2-iodo-4,6-dinitrophenylhydrazine, m. 176°. These hydrazines reacted with various carbonyl compds. to give the following hydrazones: (aldehyde, and m.p. of 2-fluoro and 2-iodo-4,6-dinitrophenylhydrazones, resp., given): RCHO, 134°, 157°; AcH, 118°, 162°; BzH,214°, 235°; o-HOC6H4CHO, 248°, 252°; o-MeOC6H4CHO, 229°, 249°; PhCH:CHCHO, 207°, 246°; heliotropin, 240°, 262°; vanillin, 248°, 265°; o-vanillin, 241°, 237°; α-C10H7CHO, 225°, 285°; Me2CO, 103°, 120°; MeCOEt, 72°, 109°; PhAc, 191°, 234°; and PhCOCO, 187°, 215°.
IT 91804-06-7P, Benzaldehyde, (2-Iodo-4,6-dinitrophenyl)hydrazone
91804-07-8P, Salicylaldehyde, (2-iodo-4,6-dinitrophenyl)hydrazone
92106-63-3P, Acetophenone, (2-iodo-4,6-dinitrophenyl)hydrazone
92106-64-4P, Vanillin, (2-iodo-4,6-dinitrophenyl)hydrazone
93532-59-3P, p-Anisaldehyde, (2-iodo-4,6-dinitrophenyl)hydrazone
93532-60-6P, o-Anisaldehyde, 2-hydroxy-, (2-iodo-4,6-dinitrophenyl)hydrazone 94210-54-5P, Benzophenone, (2-iodo-4,6-dinitrophenyl)hydrazone 98018-77-0P, Benzaldehyde, m-nitro-, (2-iodo-4,6-dinitrophenyl)hydrazone
RL: PREP (Preparation)
(preparation of)
RN 91804-06-7 CAPLUS
CN Benzaldehyde, 2-(2-iodo-4,6-dinitrophenyl)hydrazone (CA INDEX NAME)

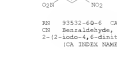
RN 91804-07-8 CAPLUS
CN Benzaldehyde, 2-hydroxy-, 2-(2-iodo-4,6-dinitrophenyl)hydrazone (CA INDEX
NAME)



RN 92106-63-3 CAPLUS
CN Ethanone, 1-phenyl-, 2-(2-iodo-4,6-dinitrophenyl)hydrazone (CA INDEX NAME)

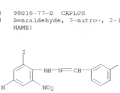
RN 92106-64-4 CAPLUS
CN Benzaldehyde, 4-hydroxy-3-methoxy-, 2-(2-iodo-4,6-dinitrophenyl)hydrazone (CA INDEX NAME)

RN 93532-59-3 CAPLUS
CN Benzaldehyde, 4-methoxy-, 2-(2-iodo-4,6-dinitrophenyl)hydrazone (CA INDEX NAME)



RN 93532-60-6 CAPLUS
CN Benzaldehyde, 2-hydroxy-3-methoxy-, 2-(2-iodo-4,6-dinitrophenyl)hydrazone (CA INDEX NAME)

RN 94230-54-5 CAPLUS
CN Benzophenone, (2-iodo-4,6-dinitrophenyl)hydrazone (7CI) (CA INDEX NAME)



RN 98018-77-0 CAPLUS
CN Benzaldehyde, 3-nitro-, 2-(2-iodo-4,6-dinitrophenyl)hydrazone (CA INDEX NAME)

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

ACCESSION NUMBER: 1964:38774 CAPLUS
DOCUMENT NUMBER: 60:38774
ORIGINAL REFERENCE NO.: 60:6846g-h,6847a
TITLE: Dimeric aldehyde hydrazones
AUTHOR(S): Kauffmann, Th.; Nuckelhaus, G.; Schulz, J.
CORPORATE SOURCE: Tech. Hochschule, Darmstadt, Germany
SOURCE: Angewandte Chemie (1963), 75(24), 1204
CODEN: ANCHAG; ISSN: 0044-8249
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
OTHER SOURCE(S): CASREACT 60:38774

GI For diagram(s), see printed CA Issue.

AB Cleavage of the corresponding styrene derivs. with H_2SeO_3 (CA 58, 2354e) gave RCH:CHCHO [I] (R = Me, Et, Pr, Bu, and Am). These compds. were more simply accessible by treating the aldehyde with NH2H.H2O at below 5°, extracting the product with Et2O, and distilling. These compds. dimerized at room temperature to give the corresponding hexahydro-3,6-dialkyl-s-tetrazines (II). These II as well as the higher homologs II (alkylhexyl, heptyl, and nonyl) were obtained directly by adding the appropriate aldehyde to NH2H.H2O at below 5°, refrigerating for several days, drying the hydrated product, and recrystg. from absolute EtOH. The following I were prepared (R, b.p./mm., and % yield given): Me, 100-2°/755, 68; Et, 100-10°/755, 60; Pr, 149-51°/760, 51; Bu, 63-6°/20 50; Am, 83-5°/15, 65. The following II were prepared (R, m.p., and % yield given): Me, 163-4°, 45; Et, 133-4°, 52; Pr (III), 153-4°, 64; Bu, 168-70°, 46; Am, 150-2°, 43; hexyl, 153-5°, 56; heptyl, 147-9°, 71; nonyl, 143-4°, 70. III in H2O (0.05M solution) was dissociated to the extent of 77% at 20°, but practically completely at 60°. Also on dry heating above its m.p., III decomposed into I (R = Pr). The remaining II were stable at 20° when stored in closed containers.

IT 7782-49-2, Selenic acid, uses
RL: USES (Uses)
(preparation of)

RN 7782-49-2 CAPLUS
CN Selenic acid (H2SeO4) (CA INDEX NAME)

ACCESSION NUMBER: 1964:2108 CAPLUS
DOCUMENT NUMBER: 60:2108
ORIGINAL REFERENCE NO.: 60:506c-f
TITLE: 7-Halogenated adrenochromes
INVENTOR(S): Barnes, Norman
PATENT ASSIGNEE(S): Chem. Research Co.
SOURCE: 6 pp.
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3098858		19630723	US 1962-201267	19620611
BE 630250			BE	
GB 1015398			GB	
PRIORITY APPLN. INFO.:			US	19620611

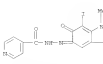
GI For diagram(s), see printed CA Issue.

AB 7-Halogenated aminochrome oximes, semicarbazones, and hydrazones were prepared by halogenating the corresponding aminochrome oxime, semicarbazone, and hydrazone. These products are useful as hypotensive agents. Adrenochrome monoxime (5 g.) in AcOH treated at 60° with 10cc. Br in AcOH gave 7-bromoadrenochrome monoxime, m. 158°. Leucinitinic hydrazone of aludrinochrome (3.27 g.) added to 1.27 g. iodine in 100 cc. AcOH, then stirred 0.5 hr. at room temperature, and treated with Et2O gave 7-iodoludrinochrome leucinitinic acid hydrazone (Ia), m. 142°. Adrenochrome semicarbazone (2) (10 g.) in AcOH treated with 10 cc. Br in AcOH gave 7-bromoadrenochrome semicarbazone, m. 190° (decomposition). I (5.9 g.) similarly treated with iodine in AcOH gave 7-iodoadrenochrome semicarbazone (II), m. 150° (decomposition). II (0.5 g.) treated with 2 cc. concentrated HCl in 10 ml. alc. gave 7-iodoadrenochrome semicarbazone-HCl, m. 124° (decomposition). Ia with HNO3 gave 7-iodoludinochrome isonicotinic acid hydrazone nitrate, m. 85° (decomposition). The corresponding 7-chloro compds. were derived from the above products. Examples are given for the preparation of injection dosages of solubilized salts. Thus, 0.5 g. Ia was used with the same amount of 3-hydroxy-2-naphthoic acid in H2O. Other examples were given in which acid addition salts were dissolved in H2O. These products were also used in capsules and pills.

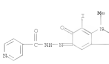
IT 92551-97-9, Isonicotinic acid, (3-hydroxy-7-iodo-1-methyl-6-oxo-5(6H)-indolylidene)hydrazide, nitrate 92551-98-0, Isonicotinic acid, (3-hydroxy-7-iodo-1-methyl-6-oxo-5(6H)-indolylidene)hydrazide 93816-43-2P, Isonicotinic acid, (3-hydroxy-7-iodo-1-isopropyl-6-oxo-5(6H)-indolylidene)hydrazide, nitrate 93816-42-3P, Isonicotinic acid, (3-hydroxy-7-iodo-1-isopropyl-6-oxo-5(6H)-indolylidene)hydrazide RL: PREP (Preparation) (preparation of)

RN 92551-97-9 CAPLUS
CN 4-Pyridinecarboxylic acid, 2-[1,2,3,6-tetrahydro-7-iodo-1-methyl-3-

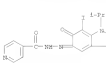
(nitrooxy)-6-oxo-5H-indol-5-ylidene]hydrazide (CA INDEX NAME)



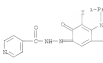
RN 92551-90-9 CAPLUS
CN 4-Pyridinecarboxylic acid, 2-[1,2,3,6-tetrahydro-3-hydroxy-7-iodo-1-methyl-6-oxo-5H-indol-5-ylidene]hydrazide (CA INDEX NAME)



RN 93816-43-2 CAPLUS
CN 4-Pyridinecarboxylic acid, 2-[1,2,3,6-tetrahydro-7-iodo-1-(1-methylethyl)-3-(nitrooxy)-6-oxo-5H-indol-5-ylidene]hydrazide (CA INDEX NAME)

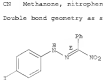


RN 93816-42-3 CAPLUS
CN 4-Pyridinecarboxylic acid, 2-[1,2,3,6-tetrahydro-3-hydroxy-7-iodo-1-(1-methylethyl)-6-oxo-5H-indol-5-ylidene]hydrazide (CA INDEX NAME)

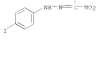


ACCESSION NUMBER: 1963:14681 CAPLUS
DOCUMENT NUMBER: 58:14681
ORIGINAL REFERENCE NO.: 58:2397a-b
TITLE: Substituted phenylhydrazones of ω-nitrobenzaldehyde
AUTHOR(S): Dubenko, K. G.; Berzina, I. N.; Pel'kis, P. S.
CORPORATE SOURCE: Inst. Org. Chem., Kiev
SOURCE: Zhurnal Obshchei Khimii (1962), 32, 942-4
CODEN: ZOKHA4; ISSN: 0044-460X
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
AB cf. Jerchel and Fischer, CA 46, 9633g. Treatment of PhCH2NO2 in AcOH with AcNiCl in AcOH-NaOAc gave 75-85% PhC(NO2):NHNC6H4R (R shown): o-Me, m. 107°, 2,4-Me2, m. 105°, o-MeO, m. 110°, o-EtO, m. 108°, p-EtO, m. 70°, p-PrO, m. 110°, o-BnO, m. 105°, p-AmO, m. 105°, o-iso-AmO, m. 105°, 2,5-(EtO)2, m. 108°, 2,5-(MeO)(OH), m. 141°, p-PhO, m. 128°, o-Cl, m. 115°, m-Cl, m. 110°, p-Cl, m. 122°, o-Br, m.121°, m-Br, m. 145°, p-Br, m. 128°, p-I, m. 142°, p-EtO2C, m. 135°, p-H2NSO2, m. 255°, p-AcHNSO2, m. 262°. Absorption spectra are shown for phenyl, p-tolyl, and o-butoxyphenyl members.
IT 1084234-68-5P
RL: SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(substituted phenylhydrazones of ω-nitrobenzaldehyde)
RN 1084234-68-5 CAPLUS
CN Methanone, nitrophenyl-, 2-(4-iodophenyl)hydrazone, (E)- (CA INDEX NAME)

Double bond geometry as shown.



IT 95766-78-2P, Benzaldehyde, ω-nitro-, (p-iodophenyl)hydrazone
RL: PREP (Preparation)
(preparation of)
RN 95766-78-2 CAPLUS
CN Methanone, nitrophenyl-, 2-(4-iodophenyl)hydrazone (CA INDEX NAME)



ACCESSION NUMBER: 1962:51113 CAPLUS
DOCUMENT NUMBER: 56:51113
ORIGINAL REFERENCE NO.: 56:9668i,9669a
TITLE: Pulse generator for the calibration of electronic instruments for nuclear technology
AUTHOR(S): Kabelek, Jiri
SOURCE: Jaderna Energie (1961), 7, 411-14
CODEN: JNJEAQ; ISSN: 0448-116X
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
AB A pulse generator for the calibration of pulse analyzers and linear amplifiers is described. The principle is the discharge, by means of a switch, of a coaxial cable into a characteristic impedance, or of a condenser into a resistance, with these elements being charged from a very stable and accurate source. The pulses are similar to those from a scintillation detector. Rectangular pulses with a very fast rise time (.approx.10-9 sec.) for measuring the resolution times of coincidence circuits are also generated.
IT 93532-59-7, p-Anisaldehyde, (2-iodo-4,6-dinitrophenyl)hydrazone
(iron corrosion inhibition by)
RN 93532-59-7 CAPLUS
CN Benzaldehyde, 4-methoxy-, 2-(2-iodo-4,6-dinitrophenyl)hydrazone (CA INDEX NAME)

L38 ANSWER 91 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 1961:81460 CAPLUS
DOCUMENT NUMBER: 55:81460
ORIGINAL REFERENCE NO.: 55:15389a-e
TITLE: Substituted phenylhydrazines and their derivatives
AUTHOR(S): Joshi, Bhim Sundar; Dwarka, Dalsagr Singh
CORPORATE SOURCE: Meerut Coll.
SOURCE: Journal of the Indian Chemical Society (1961), 38, 31-2
CODEN: JICSAK; ISSN: 0019-4522
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable

AB The following substituted phenylhydrazines were prepared from the corresponding anilines by methods already described (CA 46, 921b; 51, 17439e) (substituents, ¶ yield, color, and m.p. given): 5,2-BrCl (I), 69, colorless, 98°; 4,2,5-BrCl2 (II), 70, colorless, 107°; 4,2-I-5-CH3 (III), 78, red, 123°; 2,4,6-Me3 (IV), 72, yellow, 176°. III and IV give the corresponding phenylhydrazones with the following carbonyl compds. (carbonyl compound, color and m.p. of phenylhydrazone from III, and color and m.p. of phenylhydrazone from IV given): AcMe, orange, 137°, yellow, 162°; MeCHO, orange, 160°, yellow, 126°; PhCHO, red, 213°, vermilion, 156°; salicylaldehyde (V), dark-red, 267°, deep-red, 226°; vanillin (VI), brown, 210°, red, 240°; cuzanaldehyde (VII), red, 223°, deep-red, 188°; anisaldehyde, brown, 195°, chocolate-brown, 182°; Me2CO, orange, 116°, yellow, 128°; MeCOEt, orange-red 105°, yellow, 104°; MeCOPh, red, 156°, red, 178°; MeCOCH2Ac-p, red, 173°, red, 203°. Similarly, I and II gave the following phenylhydrazones (data as above): PhCHO, colorless, 113°, colorless, 125°; V, colorless, 152°, colorless, 172°; VI, colorless, 140°, colorless, 156°; VII, light-yellow, 102°, light-yellow, 185°; 2,5-Cl(O2N)C6H3CHO, yellow, 228°, yellow, 235°.

IT 100968-92-7 106274-16-2 107919-83-5
107919-86-8 110876-24-9 110876-25-0
110876-26-1
(Derived from data in the 6th Collective Formula Index (1957-1961))

RN 100968-92-7 CAPLUS
CN Ethanone, 1-(4-methylphenyl)-, 2-(4-iodo-2-nitrophenyl)hydrazone (CA INDEX NAME)

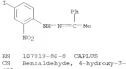
RN 106274-16-2 CAPLUS
CN Benzaldehyde, 2-hydroxy-, 2-(2-iodo-4-nitrophenyl)hydrazone (CA INDEX NAME)

L38 ANSWER 91 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)

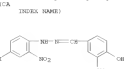
OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD
(1 CITINGS)

L38 ANSWER 91 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)

RN 107919-83-5 CAPLUS
CN Ethanone, 1-phenyl-, 2-(4-iodo-2-nitrophenyl)hydrazone (CA INDEX NAME)

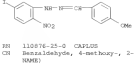


RN 107919-86-8 CAPLUS
CN Benzaldehyde, 4-hydroxy-3-methoxy-, 2-(4-iodo-2-nitrophenyl)hydrazone (CA INDEX NAME)



RN 110876-24-9 CAPLUS
CN Benzaldehyde, 4-methoxy-, 2-(5-iodo-2-nitrophenyl)hydrazone (CA INDEX NAME)

RN 110876-25-0 CAPLUS
CN Benzaldehyde, 4-methoxy-, 2-(2-iodo-4-nitrophenyl)hydrazone (CA INDEX NAME)



RN 110876-26-1 CAPLUS
CN Benzaldehyde, 4-methoxy-, 2-(4-iodo-2-nitrophenyl)hydrazone (CA INDEX NAME)

L38 ANSWER 92 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN

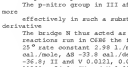
ACCESSION NUMBER: 1961:81459 CAPLUS
DOCUMENT NUMBER: 55:81459
ORIGINAL REFERENCE NO.: 55:15384a,15385a-b
TITLE: Steric hindrance and reactivity. XVII. Interaction of remote atomic groups from data of a study of reaction kinetics of amino derivatives of diphenylamine and azobenzene with p-nitrobenzoyl chloride and picryl chloride
AUTHOR(S): Litvinenko, L. M.; Levchenko, N. F.
CORPORATE SOURCE: State Univ., Kharkov
SOURCE: Zhurnal Obshchei Khimii (1960), 30, 2704-14
CODEN: ZOKHA4; ISSN: 0044-460X
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable

AB CA 55, 1520g. Kinetic data on reactions of p-R2NC6H4NHZPh (I), trans-4-aminoazobenzene (II) and their 4'-nitro derivs. (III and IV, resp.) with p-O2NC6H4COCl (V) and picryl chloride (VI), were reported. The p-nitro group in III affected the reactions of the p'-amino group more effectively in such a substance than it did in a similar biphenyl derivative The Bridge N thus acted as an effective electron transfer unit. For the reactions run in C6H6 the following data were reported: I and VI at 25° rate constant 2.98 l./mole. sec.; at 56° 7.73, EA 7360 cal./mole, AS -33.8 cal./deg. mole; III and VI 0.0689, 0.214, 9700, -36.8; II and V 0.0121, 0.0364, 8400, -41.1; II and VI 0.00214, 0.00963, 11500, -34.2; IV and V 0.00231, 0.00692, 8400, -44.5; IV and VI 0.000285, 0.00132, 11700, -37.6; these are compared with similar data obtained earlier from compds. with O, S and CH2CH bridge groupings.

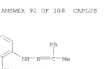
IT 100968-80-7 106274-16-2 107919-83-5
107919-86-8 110876-24-9 110876-25-0
110876-26-1
(Derived from data in the 6th Collective Formula Index (1957-1961))

RN 100968-80-7 CAPLUS
CN Ethanone, 1-(4-methylphenyl)-, 2-(4-iodo-2-nitrophenyl)hydrazone (CA INDEX NAME)

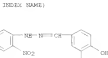
RN 106274-16-2 CAPLUS
CN Benzaldehyde, 2-hydroxy-, 2-(2-iodo-4-nitrophenyl)hydrazone (CA INDEX NAME)



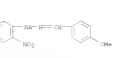
RN 107919-83-5 CAPLUS
CN Ethanone, 1-phenyl-, 2-(4-iodo-2-nitrophenyl)hydrazone (CA INDEX NAME)



RN 107919-86-8 CAPLUS
CN Benzaldehyde, 4-hydroxy-3-methoxy-, 2-(4-iodo-2-nitrophenyl)hydrazone (CA INDEX NAME)



RN 110876-24-9 CAPLUS
CN Benzaldehyde, 4-methoxy-, 2-(5-iodo-2-nitrophenyl)hydrazone (CA INDEX NAME)

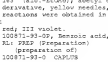


RN 110876-25-0 CAPLUS
CN Benzaldehyde, 4-methoxy-, 2-(2-iodo-4-nitrophenyl)hydrazone (CA INDEX NAME)

RN 110876-26-1 CAPLUS
CN Benzaldehyde, 4-methoxy-, 2-(4-iodo-2-nitrophenyl)hydrazone (CA INDEX NAME)

ACCESSION NUMBER: 1960:110174 CAPLUS
DOCUMENT NUMBER: 54:110174
ORIGINAL REFERENCE NO.: 54:20923e-h
TITLE: Nitration of 4-nitro-o-iodotoluene
AUTHOR(S): Kapil, R. S.
CORPORATE SOURCE: Meerut Coll., Meerut, India
SOURCE: Journal of Organic Chemistry (1960), 25, 1036-7
CODEN: JOCHAW; ISSN: 0022-3263
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
AB Nitration of 4-nitro-o-iodotolueme (I) gave 4,5-dinitro- (II) and 4,6-dinitro-o-iodotoluene (III). The identity of II was confirmed by an unequivocal synthesis from 4,5-dinitro-o-toluidine (IV) by the Sandmeyer reaction. Attempts to prepare III from 4,6-dinitro-o-toluidine failed.

I (10 g.) in 42 ml. concentrated H2SO4, 14 ml. fuming HNO3 added dropwise, heated 2 hrs., poured onto crushed ice, and the solid separated gave 5.2 g. II, yellow flakes, m. 97° (alc. and MeOH). The mother liquors on standing gave 1 g. III, yellow needles, m. 178° (alc.). There remained an oil (1.5 g.) which could not be crystallized IV (0.5 g.) in 5 g. concentrated H2SO4 containing a little H2O, diazotized at 0° with 0.4 g. NaNO2, after 0.5 hr. the mixture treated with 5 g. KI in H2O yielded crude II, which gave after recrysts. 0.4 g. pure product. 3,4-Dinitro-o-toluidine similarly treated gave 3,4-dinitro-o-iodotoluene (V), yellow needles, m. 110° II (5 g.) in alc. treated with twice the equivalent amount NiH4.H2O, kept 1 hr. the precipitate filtered off, washed and recrystd. gave 2.9 g. 2-nitro-5-iodo-p-tolylhydrazine, orange needles, m. 163° (ale.-HCOH2O); acetyl derivative, m. 217° (ale.); benzoyl derivative, yellow needles, m. 199° (ale.). The following color reactions were obtained in Mn2CO with aqueous NaOH: V intense green; II light red; III violet.
IT 100878-93-0P, Benzoic acid, 2-(5-iodo-2-nitro-p-tolyl)hydrazide
RL: PREP (Preparation)
(preparation of)
RN 100878-93-0 CAPLUS
CN Benzoic acid, 2-(5-iodo-4-methyl-2-nitrophenyl)hydrazide (CA INDEX NAME)



ACCESSION NUMBER: 1960:91494 CAPLUS
DOCUMENT NUMBER: 54:91494
ORIGINAL REFERENCE NO.: 54:17310h-i,17311a-b
TITLE: Hydrogenation of cinnamic alcohol (styrone)
AUTHOR(S): Sokol'skaya, A. M.; Sokol'skii, D. V.
CORPORATE SOURCE: Inst. Chem. Sci., Acad. Sci. Kazakh., S.S.R., Alma-Ata
SOURCE: Trudy Instituta Khimicheskikh Nauk, Akademiya Nauk Kazakhskoi SSR (1959), 5, 110-13
CODEN: TIKMAG; ISSN: 0568-5087
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
AB Hydrogenation of the title compound (I) in 96% EtOH over a Ni catalyst was investigated. The ground Ni 33, Al 67% alloy, placed in a Kjeldahl flask, was treated in small portions with 20% NaOH (80 ml./g. alloy), and the mixture was heated 2 hrs. on a water bath. The liquor was then decanted and the skeleton Ni was quickly washed with boiling H2O saturated with H, until the wash was neutral to phenolphthalein. A portion of Ni prepared from 6 g. alloy was washed 5 times with 500 ml. at a time. The Ni was next washed twice with 96% EtOH and then transferred under alc. to a crystallization vessel, where it was stored for not more than 2-3 days. The transfer of the catalyst to the hydrogenation reactor (Sokol'skii and Brui, CA 44, 10467e), containing 10-20 ml. alc. was also done under alc. The reactor was purged with 600-800 ml. H and shaken. The potential of the catalyst (600-700 mv.) usually settled after 10-15 min., but 40 min. were given to ensure full H adsorption (10-25 ml.). The stirrer was then started and the alc. solution of I was added to the reactor. The expts. were carried out with 2 or 3 ml. of H or 2-4 ml. of 4M solution of I in EtOH over 0.1-0.3 g. catalyst in 50 ml. EtOH medium at 4.5-40°. It was established that the hydrogenation velocity was directly proportional to the amount of the catalyst in the 0.1-0.3 g. range, and that it was hardly affected by the concentration of the reaction product. The activation energy of the reaction approached 10,000 cal./mole. The specific activity of the catalyst at 20° equaled 64 ml. H/g., twice the amount obtained by Suvalkina (cf. B. and Sokol'skii CA 50, 227h) with a Ni catalyst prepared from Ni 50, Al 50% alloy.
IT 103067-78-0 109477-05-0
(Derived from data in the 6th Collective Formula Index (1957-1961))
RN 103067-78-0 CAPLUS
CN Benzophenone, (5-iodo-2-nitro-p-tolyl)hydrazone (8CI) (CA INDEX NAME)

RN 109477-05-0 CAPLUS

L38 ANSWER 94 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)
CN Benzophenone, (5-iodo-2-nitrophenyl)hydrazone (6CI) (CA INDEX NAME)

L38 ANSWER 95 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1968:91493 CAPLUS
DOCUMENT NUMBER: 54:91493
ORIGINAL REFERENCE NO.: 54:17310c-h
TITLE: Behavior of chloronitrobenzenes with hydrazine and hydrazine derivatives. IX. Nitrophenylhydrazines and their hydrazones
AUTHOR(S): Kapil, R. S.; Mittal, J. P.; Titus, S. K.; Joshi, S. S.
CORPORATE SOURCE: Meerut Coll.
SOURCE: Journal of the Indian Chemical Society (1968), 37, 56-8
CODEN: JICSAK; ISSN: 0019-4522
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
AB cf. CA 54, 9940f. The preparation of 6 o-substituted phenylhydrazines and some of their hydrazones is described. NaBH4.H2O (2 equivs.) was added dropwise with vigorous shaking to a solution of 5 g 4,5,1,2-(O2N)2C6H2Cl1 in alc., the mixture kept 1 hr., filtered and the crystals washed with H2O and cold alcohol and recrystd. from EtOAc to give 3 g. 4,5,2-Cl2(O2N)C6H2NHNH2 (I), orange-red needles, m. 170°. Similarly were prepared the following substituted phenylhydrazines (halonitrobenzene used, m.p. and color given): 5,2-Cl(O2N)C6H3NHNH2 (II), 3,4-(O2N)2C6H3Cl, 160°, orange; 5,2-Br(O2N)C6H3NHNH2 (III), 3,4-(O2N)2C6H3Br, 160°, orange; 5,2-I-(O2N)C6H3NHNH2 (IV), 3,4(O2N)2C6H3I, 150°, orange-red; 4,5,2-MeCl(O2N)C6H2NHNH2 (V), 2,4,5-Cl(O2N)2C6HMe, 155°, orange-red; 4,5,2-Me(O2N)C6H2NHNH2 (VI), 2,4,5-1(O2N)2C6H2Me, 163°, orange-red. Phenylhydrazones were prepared in good yield by heating a mixture of 0.2 g. substituted phenylhydrazine in 10 cc. alc. with an equivalent of carbonyl compound [BzH (VII), o-HOC6H4CHO (VIII), m-HOC6H4CHO (IX), p-HOC6H4CHO (X), p-MeOC6H4CHO (XI), o-O2NC6H4CHO (XII), PhCOMe (XIII), PhZCO (XIV)] and 1 to 2 drops AcOH followed by recrystn. of the product from EtOAc. Data for these products were tabulated (carbonyl compound used, phenylhydrazine used, m.p., and color given): VII, II, 173°, red; VII, III, 182°, red; VII, IV, 210°, red; VII, I, 228°, red; VII, V, 199°, red; VII, VI, 154°, red; VIII, II, 223°, red; VIII, III, 234° (decomposition), red; VIII, IV, 231°, red; VIII, I, 258°, red; VIII, V, 236°, red; VIII, VI, 212°, red; IX, II, 206°, orange; IX, III, 215°, red; IX, IV, 223°, red; IX, I, 240°, red; IX, V, 235°, red; IX, VI, 228°, orange; X, II, 226°, red; X, III, 205°, red; X, IV, 231°, orange; X, I, 275°, brown; X, V, 245°, brown; X, VI, 246°, brown; XI, II, 183°, red; XI, III, 208°, red; XI, IV, 209°, red; XI, I, 228°, red; XI, V, 201°, red; XI, VI, 229°, red; XII, II, 138°, orange; XII, III, 147°, orange-red; XII, IV, 233°, red; XII, I, 206°, orange; XII, V, 175°, red; XII, VI, 157°, red; XIII, II, 154°, orange; XIII, III, 145°, orange; XIII, IV, 123°, orange; XIII, I, 171°, red; XIII, V, 153°, red; XIII, VI, 176°, red; XIV, II, 247°, orange; XIV, III, 243°, orange; XIV, IV, 259°, red; XIV, I, 260°, orange-yellow; XIV, V, 240°, orange; XIV, VI, 262°, orange.

L38 ANSWER 95 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)
IT 96583-29-8 100971-92-3 100971-94-1
100968-79-4 102004-78-0 106274-15-1
106274-16-2 106274-65-1 106321-07-7
107913-84-6 107933-85-7 107921-87-9
108417-05-0 110876-24-9 110876-25-0
110876-26-1
(Derived from data in the 6th Collective Formula Index (1957-1961))
RN 96583-29-8 CAPLUS
CN Benzaldehyde, 3-nitro-, 2-(5-iodo-2-nitrophenyl)hydrazone (CA INDEX NAME)

RN 100971-92-9 CAPLUS
CN Benzaldehyde, 2-(5-iodo-4-methyl-2-nitrophenyl)hydrazone (CA INDEX NAME)

RN 100971-94-1 CAPLUS
CN Benzaldehyde, 2-hydroxy-, 2-(5-iodo-4-methyl-2-nitrophenyl)hydrazone (CA INDEX NAME)

RN 100968-79-4 CAPLUS
CN Ethanone, 1-phenyl-, 2-(5-iodo-4-methyl-2-nitrophenyl)hydrazone (CA INDEX NAME)

RN 102004-78-0 CAPLUS
CN Benzophenone, (5-iodo-2-nitro-p-tolyl)hydrazone (6CI) (CA INDEX NAME)

L38 ANSWER 95 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)

RN 106274-15-1 CAPLUS
CN Benzaldehyde, 4-hydroxy-, 2-(2-iodo-4-nitrophenyl)hydrazone (CA INDEX NAME)

RN 106274-16-2 CAPLUS
CN Benzaldehyde, 2-hydroxy-, 2-(2-iodo-4-nitrophenyl)hydrazone (CA INDEX NAME)

RN 106274-65-1 CAPLUS
CN Benzaldehyde, 3-hydroxy-, 2-(2-iodo-4-nitrophenyl)hydrazone (CA INDEX NAME)

RN 106321-07-7 CAPLUS
CN Benzaldehyde, 3-nitro-, 2-(5-iodo-4-methyl-2-nitrophenyl)hydrazone (CA INDEX NAME)

RN 107913-84-6 CAPLUS
CN Benzaldehyde, 3-hydroxy-, 2-(5-iodo-4-methyl-2-nitrophenyl)hydrazone (CA INDEX NAME)

RN 107919-85-7 CAPLUS
CN Benzaldehyde, 4-hydroxy-, 2-(5-iodo-4-methyl-2-nitrophenyl)hydrazone (CA INDEX NAME)

RN 107921-87-9 CAPLUS
CN Ethanone, 1-phenyl-, 2-(5-iodo-2-nitrophenyl)hydrazone (CA INDEX NAME)

RN 108477-05-0 CAPLUS
CN Benzophenone, (5-iodo-2-nitrophenyl)hydrazone (6CI) (CA INDEX NAME)

RN 110876-24-9 CAPLUS
CN Benzaldehyde, 4-methoxy-, 2-(5-iodo-2-nitrophenyl)hydrazone (CA INDEX NAME)

RN 110876-25-0 CAPLUS
CN Benzaldehyde, 4-methoxy-, 2-(2-iodo-4-nitrophenyl)hydrazone (CA INDEX NAME)

RN 110876-26-1 CAPLUS
CN Benzaldehyde, 4-methoxy-, 2-(4-iodo-2-nitrophenyl)hydrazone (CA INDEX NAME)

OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

ACCESSION NUMBER: 1960:91492 CAPLUS
DOCUMENT NUMBER: 54:91492
ORIGINAL REFERENCE NO.: 54:17309e-i,17310a-c
TITLE: Rearrangement reactions of quinols. IV. Rearrangement of o-quinols
AUTHOR(S): Hodakinowics, H.; Schmidt, G.; Stockhammer, P.; Wessely, F.
SOURCE: Monatshefte fuer Chemie (1959), 90, 609-19
CODEN: MOCMB7; ISSN: 0026-9247
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
OTHER SOURCE(S): CASREACT 54:91492
AB sf. CA 54, 5562g. Alkaline hydrolysis of o-benzoquinol acetate substituted in
the 6-position resulted in an aqyloin rearrangement which gave a 3-substituted o-benzoquinol. 2,6-Me2C6H3OH dissolved in CHCl3 was added dropwise (below 30°) to a slurry of Pb(OAc)4 in CHCl3, the mixture kept 30 min., tested with starch-iodide paper for excess oxidant, filtered, the CHCl3 solution extracted with H2O, the PbO2 removed by centrifugation, and the mixture distilled at 0.01 mm. to give 60% 2,6-dimethyl-o-quinol acetate (I), m. 36° (Et2O at -80°). Similarly was prepared from 2,3,5-Me3C6H2OH, 35% 2,3,5-trimethyl-o-quinol acetate (II), m. 74°, yellow-white crystals. 2,4,6-Trimethyl-o-quinol acetate (III) in ale. solution was added dropwise at
room temperature to an equivalent of 0.1N NaOH free of O, stirred 15 min., extracted
with Et2O, dried, and the Et2O distilled to precipitate quinol dimer (IV). Distillation
of the residue (water pump vacuum) b. 96-100° gave 30% 2,3,5-trimethyl-o-quinol (V), m. 62° (petr. ether). Similarly, from II was obtained V, m. 39°; from 2,6-dimethyl-o-quinol acetate was obtained 65% of a quinol dimer (VI), m. 196; from 2,3-dimethyl-o-quinol acetate (VII) was obtained VIII. IV was thermally decomposed at 200° to V. Heating V 2 hrs. at 130° under N, regenerated IV. Similarly, at 280°, VI gave 2,3-dimethyl-o-quinol (VIII). The dimers were Diels-Alder adducts. V (450 mg. in 50 cc. C6H6) was acetylated by HClO4-Ac2O and distilled at 0.03 mm.
to give 430 mg. II. Also, 250 mg. V in 5 ml. AcOAc containing 0.5 g. C5H5N
gave 78% II. Similarly, VIII gave VII. V was reduced by Zn and H2SO4 at room temperature to 2,3,5-Me3C6H2OH. II rearranged by Ac2O-H2SO4 (CA 53, 21770e).
gave a quant. yield of trimethylhydroquinone diacetate, m. 110°
(2A). Similarly, V gave mainly IX, rearranged diacetate, and a phenol triacetate, m. 115-17° (the phenol, C15H22O3, m. 170-1°). V with Ac2O-BF3 gave 2,3,6,4-Me3(OH)C6HSE (X), m. 92° (N atmosphere), along
with the same products obtained with Ac2O. X with Ac2O and C5H5N gave white crystals, m. 60-1°, which were desulfonized by Raney Ni in boiling alc. to 2,3,5-Me3C6H2OH, m. 96°. From VIII and Ac2O was obtained 2,5-dimethylhydroquinone, 2,6-dimethylresorcinol, and 2,3-dimethylpyrocatechol. Treatment of 1-methylnaphthoquinol or its acetate with Ac2O gave 95% 1-methyl-2,6-naphthohydroquinone diacetate, m. 91°.

IT 96583-29-8 108871-92-9 108871-94-1
108948-79-4 106274-15-1 106274-16-2
106274-45-1 106321-57-7 107919-84-6

107919-85-7 107921-87-9 110876-24-9
110876-25-0 110876-26-1
(Derived from data in the 6th Collective Formula Index (1957-1961))

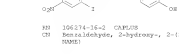
RN 96583-29-8 CAPLUS
CN Benzaldehyde, 3-nitro-, 2-(5-iodo-2-nitrophenyl)hydrazone (CA INDEX NAME)

RN 108871-92-9 CAPLUS
CN Benzaldehyde, 2-(5-iodo-4-methyl-2-nitrophenyl)hydrazone (CA INDEX NAME)

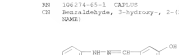
RN 108871-94-1 CAPLUS
CN Benzaldehyde, 2-hydroxy-, 2-(5-iodo-4-methyl-2-nitrophenyl)hydrazone (CA INDEX NAME)

RN 108948-79-4 CAPLUS
CN Ethanone, 1-phenyl-, 2-(5-iodo-4-methyl-2-nitrophenyl)hydrazone (CA INDEX NAME)

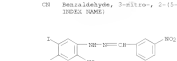
RN 106274-15-1 CAPLUS
CN Benzaldehyde, 4-hydroxy-, 2-(2-iodo-4-nitrophenyl)hydrazone (CA INDEX NAME)



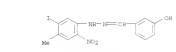
RN 106274-36-2 CAPLUS
CN Benzaldehyde, 2-hydroxy-, 2-(2-iodo-4-nitrophenyl)hydrazone (CA INDEX NAME)



RN 106274-65-1 CAPLUS
CN Benzaldehyde, 3-hydroxy-, 2-(2-iodo-4-nitrophenyl)hydrazone (CA INDEX NAME)



RN 106321-07-7 CAPLUS
CN Benzaldehyde, 3-nitro-, 2-(5-iodo-4-methyl-2-nitrophenyl)hydrazone (CA INDEX NAME)



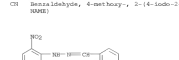
RN 107919-84-6 CAPLUS
CN Benzaldehyde, 3-hydroxy-, 2-(5-iodo-4-methyl-2-nitrophenyl)hydrazone (CA INDEX NAME)

RN 107919-85-7 CAPLUS
CN Benzaldehyde, 4-hydroxy-, 2-(5-iodo-4-methyl-2-nitrophenyl)hydrazone (CA INDEX NAME)

RN 107921-87-9 CAPLUS
CN Ethanone, 1-phenyl-, 2-(5-iodo-2-nitrophenyl)hydrazone (CA INDEX NAME)

RN 110876-24-9 CAPLUS
CN Benzaldehyde, 4-methoxy-, 2-(5-iodo-2-nitrophenyl)hydrazone (CA INDEX NAME)

RN 110876-25-0 CAPLUS
CN Benzaldehyde, 4-methoxy-, 2-(2-iodo-4-nitrophenyl)hydrazone (CA INDEX NAME)



RN 110876-26-1 CAPLUS
CN Benzaldehyde, 4-methoxy-, 2-(4-iodo-2-nitrophenyl)hydrazone (CA INDEX NAME)

L38 ANSWER 97 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 1960:38891 CAPLUS
DOCUMENT NUMBER: 54:38891
ORIGINAL REFERENCE NO.: 54:7398a-c
TITLE: Nitrosation, diazotization, and deamination. II. Second- and third-order diazotization of aniline in dilute perchloric acid
AUTHOR(S): Hughes, E. D.; Ingold, C. K.; Ridd, J. H.
CORPORATE SOURCE: Univ. Coll., London
SOURCE: Journal of the Chemical Society (1958) 65-9
CODEN: JCSOA9; ISSN: 0368-1769
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
AB cf. C.A. 52, 8702a. In diazotization of PhNH2 with use of stoichiometrically equivalent amts. of PhNH2 and HNO2 and excess HClO4, the kinetic order fell from 3 to 2 as the excess of acid was decreased from 0.050 to 0.002M; the order rose to about 2.6 when the excess of acid was removed. The reaction was 2nd order in HNO2 throughout, while the order in PhNH2 decreased from 1 to zero with decreasing acidity. The rise in apparent order to 2.6 was attributed to a decrease in the concentration of HNO2 due to ionization and was not significant to the mechanism. The 2nd order reaction was not acid-catalyzed, although there was some evidence for a small acid-catalyzed component of the total reaction.
IT 100381-79-1P, Benzoic acid, 2-(5-iodo-2-nitrophenyl)hydrazide
RL: PREP (Preparation)
(preparation of)
RN 100381-79-1 CAPLUS
CN Benzoic acid, 2-(5-iodo-2-nitrophenyl)hydrazide (CA INDEX NAME)

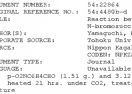
OS.CITING REF COUNT: 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)

L38 ANSWER 98 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 1960:38890 CAPLUS
DOCUMENT NUMBER: 54:38890
ORIGINAL REFERENCE NO.: 54:7397h-i,7398a
TITLE: Nitration of m-iodonitrobenzene
AUTHOR(S): Kapil, R. S.
CORPORATE SOURCE: Meerut Coll., India
SOURCE: Journal of the Chemical Society (1959) 4127-8
CODEN: JCSOA9; ISSN: 0368-1769
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
OTHER SOURCE(S): CASREACT 54:38890
AB cf. Ullmann and Bielecki, Ber. 34, 2179(1901). Fuming HNO3 (28 cc.), added dropwise with shaking at 10° or less to 10 g. m-IC6H4NO2 and 42 cc. concentrated H2SO4, the mixture heated 2 hrs. on a water bath, then poured on ice, and the solid repeatedly crystallized from EtOH gives 4,1,2-IC6H3(NO2)2 (I), yellow plates, m. 74°. The mother liquor ppts. 0.7 g. 3-I isomer. I (1 g.) in EtOH and 2 equivs. cold NH4.820 solution ppts. in 1 hr. 0.6 g. 5-iodo-2-nitrophenylhydrazine, orange-red needles, m. 150° (HCOAc). Ac derivative, lemon-yellow needles, m. 228° (EtOH); di-Ac derivative, lemon-yellow needles or plates, m. 172° (EtOH); EtCO derivative, lemon-yellow needles, m. 163° (EtOH); Bz derivative, pale yellow needles, m. 200° (EtOH). 2,3-(O2N)2C6H2I, refluxed with aq. NH3 2 hrs., ppts. on cooling 2,6-I(O2N)C6H3NH2, orange-red needles, m. 108°.
IT 100381-79-1P, Benzoic acid, 2-(5-iodo-2-nitrophenyl)hydrazide
RL: PREP (Preparation)
(preparation of)
RN 100381-79-1 CAPLUS
CN Benzoic acid, 2-(5-iodo-2-nitrophenyl)hydrazide (CA INDEX NAME)

L38 ANSWER 99 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1960:22866 CAPLUS
DOCUMENT NUMBER: 54:22866
ORIGINAL REFERENCE NO.: 54:4480h-i
TITLE: Rearrangement of hydrazones into amidines. V. Study of certain, under ordinary conditions unstable, arylhydrazones with respect to their tendency to undergo amidine rearrangement
AUTHOR(S): Ruzek, St.
SOURCE: Doklady Bolgarskoi Akademii Nauk (1959), 12, 141-4
CODEN: DBAKAD; ISSN: 0366-8681
DOCUMENT TYPE: Journal
LANGUAGE: Russian
AB The expts. show that o- and m-tolylhydrazones can rearrange to the amidines; benzaldehyde o-tolylhydrazone yields 23% N-(o-tolyl)-benzamidine, m. 109-10°; piperonal o-tolylhydrazone yields 31% N-(o-tolyl)-3,4-methylenedioxybenzamidine, m. 131-2°; anisaldehyde o-tolylhydrazone yields 47% N-(o-tolyl)-p-methoxybenzamidine, m. 60-1°; benzaldehyde m-tolylhydrazone yields 34% N-(m-tolyl)-benzamidine, m. 109-9°; and finally anisaldehyde [m-tolyl]-hydrazone yields 23% N-(m-tolyl)-p-methoxybenzamidine m. 107-8°.
IT 100717-07-5
(Derived from data in the 6th Collective Formula Index (1957-1961))
RN 100717-07-5 CAPLUS
CN Benzaldehyde, 4-methoxy-, 2-(4-iodophenyl)hydrazone (CA INDEX NAME)

L38 ANSWER 100 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1960:22865 CAPLUS
DOCUMENT NUMBER: 54:22865
ORIGINAL REFERENCE NO.: 54:4480d-h
TITLE: Rearrangement of hydrazones into amidines. IV. Preparation of certain aromatic N-(p-iodophenyl)-substituted amidines
AUTHOR(S): Ruzek, St.; Vaverka, T.
SOURCE: Doklady Bolgarskoi Akademii Nauk (1959), 12, 137-41
CODEN: DBAKAD; ISSN: 0366-8681
DOCUMENT TYPE: Journal
LANGUAGE: Russian
AB cf. C.A. 50, 13878g. Reactions according to the scheme ArCH:NNHAr' → ArC(NH2):NAr' were carried out to determine the role of various substituents in the aromatic nuclei. Four new N-(p-iodophenyl)-substituted amidines have been s ynthesized. Benzaldehyde p-iodophenylhydrazone 1.61 and anhydrous xylene 20 was heated to boiling, NaNH2 0.2 added, the mixture stirred till all the NH3 evolved, gently boiled 1 hr., H2O 50 added, the aqueous layer discarded, the xylene layer extracted twice with 5% HCl 5Q, the extr. combined, shaken with activated C 0.2 part, filtered, and the filtrate made alkaline with 20% NaOH till the formation of a milky suspension, from which the crystalline N-(p-iodophenyl)benzamidine (I) soon separated Recrystn. from dilute alc., then from ligroine yielded 63% product, m. 139-41°. I 0.32 in (AcO)2O 2 was boiled 0.5 hr., kept a day, H2O 0.1 part added, and the solution neutralized with 20% NaOH. In 2-3 days the product solidified; one recrystn. from dilute alc. yielded N,N'-diacetyl-N-(p-iodophenyl)benzamidine 0.13 part, m. 174-7°, repeated recrystn. increased the m.p. to 181-2°. p-Tolualdehyde 2.4 in alc. 10 and p-iodophenylhydrazine 4.66 in alc. 20 in the presence of some glacial AcOH cooled to -10°, and the precipitate washed with cold 80% alc. 10 parts yielded 80% p-tolylaldehyde p-iodophenylhydrazone (II), m. 141-2°. Following the above procedure, II 1.46 yielded N-(p-iodophenyl)-p-methylbenzamidine 0.77 part, m. 198-9°. Similarly piperonal p-iodophenylhydrazone 1.8 yielded crude N-(p-iodophenyl)-3,4-methylenedioxybenzamidine 0.95 part, m. 137-40°; the pure compound m. 146-7°. Finally anisaldehyde p-iodophenylhydrazone 1.74 yields N-(p-iodophenyl)-p-methoxybenzamidine 0.97 part, m. 162-4°.
IT 65447-26-9 100717-07-5
(Derived from data in the 6th Collective Formula Index (1957-1961))
RN 65447-26-9 CAPLUS
CN Benzaldehyde, 2-(4-iodophenyl)hydrazone (CA INDEX NAME)



RN 100717-07-5 CAPLUS
CN Benzaldehyde, 4-methoxy-, 2-(4-iodophenyl)hydrazone (CA INDEX NAME)

L38 ANSWER 99 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)

IT 100717-05-3, p-Tolualdehyde, (p-Iodophenyl)hydrazone
(rearrangement of)
RN 100717-05-3 CAPLUS
CN Benzaldehyde, 4-methyl-, 2-(4-iodophenyl)hydrazone (CA INDEX NAME)

L38 ANSWER 101 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1960:22864 CAPLUS
DOCUMENT NUMBER: 54:22864
ORIGINAL REFERENCE NO.: 54:4480b-d
TITLE: Reaction between aromatic aldehydes and N-bromosuccinimide
AUTHOR(S): Yamauchi, Kameoy; Adachi, Tadashi
CORPORATE SOURCE: Tohoku Univ., Sendai
SOURCE: Nippon Kagaku Zasshi (1958), 79, 487-90
CODEN: NPKZAZ; ISSN: 0369-5387
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
AB p-O2NC6H4CHO (1.51 g.) and 3.12 g. N-bromosuccinimide in 30 cc. CHCl3 heated 21 hrs. under CO2, treated with NH3, 20 cc. H2O added and the mixture filtered gave 0.84 g. p-O2NC6H4CONH2; the filtrate gave 0.37 g. p-O2NC6H4CO2H from the aqueous layer and 0.57 g. resinous material from the CHCl3 layer. Similarly BzH gave 10.5% BzNH2, p-ClC6H4CHO gave 21.9% p-ClC6H4CONH2 and 30.7% p-ClC6H4CO2H, and o-ClC6H4CHO gave 40.5% o-ClC6H4CONH2 and 21.1% o-ClC6H4CO2H. o-O2NC6H4CHO, 5-bromovanillin, and 5-nitrovanillin failed to give any acid or amide. Thus the acid bromide is most easily formed from p-ClRC6H4CHO as far as p-substituted compds. are concerned but is not formed from compds. that have an OH group.
IT 65447-26-9
(Derived from data in the 6th Collective Formula Index (1957-1961))
RN 65447-26-9 CAPLUS
CN Benzaldehyde, 2-(4-iodophenyl)hydrazone (CA INDEX NAME)

L38 ANSWER 102 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1957:85552 CAPLUS
DOCUMENT NUMBER: 51:85552
ORIGINAL REFERENCE NO.: 51:15439d-i
TITLE: Behavior of chlorotrobenzenes with hydrazine and hydrazine derivs. IV. Some halonitrophenylhydrazines and their hydrazones
AUTHOR(S): Joshi, Bhian Sunder; Dewara, Baleep Singh
CORPORATE SOURCE: Meerut Coll.
SOURCE: Journal of the Indian Chemical Society (1957), 34, 14-18
CODEN: JICSAK; ISSN: 0019-4522
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
AB cf. C.A. 47, 8738g. The following substituted polynitrophenylhydrazines were prepared by shaking an absolute alc. solution of the corresponding halogenated polynitrobenzene with its equivalent of N2H4.H2O at 20° to replace 1 halogen, leaving overnight, washing repeatedly with H2O, and crystallizing from
excess alc. Inhabitants, % yield, and m.p. given): 4,5,6-Cl(O2N)2 (I), 12, 178°; 4,2,6-Br(O2N)2 (II), 10, 142°; 5,2,4,6-Cl(O2N)3 (III), 70, 176°; 2,3,2,4-ClMe(O2N)2 (IV), 80, 202°; 4,3,2,6-BrMe(O2N)2 (V), 20, 152°; and 4,3,2,6-ClMe(O2N)2 (VI), 18, 153°. The 2,5-Br(O2N)2 (VII), m. 161°, and the 2,4-I(O2N)2 compound (VIII), m. 148°, were prepared in 72% and 68% yield, resp., by diazotizing the corresponding nitroaniline and reducing the product with an alkaline solution of Na2SO3. The following hydrazones were prepared (carbonyl-
compound, hydrazine, and m.p. given). CH2O: I, 113°; II, 118°; III, 152°; IV, 216°; VI, 103°; VIII, 143°. AcH: I, 108°; II, 109°; III, 190°; IV, 106°; VI, 136°; VIII, 135°. BzH: I, 228°; II, 234°; III, 237°; IV, 241°; V, 196°; VI, 199°; VII, 143°; VIII, 157°. o-HOC6H4CHO: I, 223°; II, 221°; III, 185°; IV, 245°
(decomposition); VI, 188°; VII, 207°. m-HOC6H4CHO: I, 238°; II, 240°; III, 259°; IV, 284°
(decomposition); VI, 185°; VII, 228°. p-HOC6H4CHO: I, 238°; II, 245°; III, 279°; IV, 249°
(decomposition); VI, 185°; VII, 258°. Anisaldehyde: I, 198°; II, 201°; III, 240°; IV, 229°; VII, 181°; VIII, 190°. PhCH:CHCHO: I, 198°; II, 209°; III, 280°; IV, 194°; VI, 171°; VIII, 171°. Vanillin: I, 236°; II, 253°; III, 248°; IV, 248°; VII, 203°; VIII, 187°. Heliotropin: I, 240°; II, 245°; III, 243°; IV, 221°; V, 168°; VII, 236°; VIII, 208°. 3,4-(MO)2C6H3CHO: I, 238°; II, 250° (decomposition); III, 279°; IV, 232°; VII, 234°; VIII, 342°. MeCOCH: I, 104°, II, 96°; III, 154°; IV, 111°; V, 102°; VI, 106°; VII, 92°; VIII, 112°. MeCOEt: I, 132°; II, 128°; III, 158°; IV, 103°; V, 99°; VI, 101°; VII, 76°; VIII, 100°. MeCOPh: I, 203°; II, 206°; III, 198°; IV, 222°; VI, 110°. p-MeC6H4COMe: I, 213°; II, 223°; III, 227°; IV, 236°; VI, 141°. PhCH2COMe: I, 225°; II, 230°; III, 227°; IV, 205°; VI, 145°. MeC6H5CHCHO: VI, 175°.
IT 106274-15-1 106274-16-2 106274-64-0

L38 ANSWER 102 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)

RN 108875-92-9 CAPLUS
CN Benzaldehyde, 3,4-dihydroxy-, 2-(2-iodo-4-nitrophenyl)hydrazone (CA INDEX
NAME)

RN 110876-24-9 CAPLUS
CN Benzaldehyde, 4-methoxy-, 2-(5-iodo-2-nitrophenyl)hydrazone (CA INDEX NAME)

RN 110876-25-0 CAPLUS
CN Benzaldehyde, 4-methoxy-, 2-(2-iodo-4-nitrophenyl)hydrazone (CA INDEX NAME)

L38 ANSWER 102 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)

RN 110876-26-1 CAPLUS
CN Benzaldehyde, 4-methoxy-, 2-(4-iodo-2-nitrophenyl)hydrazone (CA INDEX NAME)

(Derived from data in the 4th Collective Formula Index (1957-1961))

RN 106274-15-1 CAPLUS
CN Benzaldehyde, 4-hydroxy-, 2-(2-iodo-4-nitrophenyl)hydrazone (CA INDEX NAME)

RN 106274-16-2 CAPLUS
CN Benzaldehyde, 2-hydroxy-, 2-(2-iodo-4-nitrophenyl)hydrazone (CA INDEX NAME)

RN 106274-64-0 CAPLUS
CN Benzaldehyde, 2-(2-iodo-4-nitrophenyl)hydrazone (CA INDEX NAME)

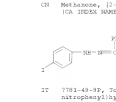
RN 106274-65-1 CAPLUS
CN Benzaldehyde, 3-hydroxy-, 2-(2-iodo-4-nitrophenyl)hydrazone (CA INDEX NAME)

RN 107921-88-0 CAPLUS
CN Benzaldehyde, 4-hydroxy-3-methoxy-, 2-(2-iodo-4-nitrophenyl)hydrazone (CA
INDEX NAME)

L38 ANSWER 102 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)

OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

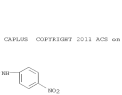
L38 ANSWER 103 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1953:13874 CAPLUS
DOCUMENT NUMBER: 47:13874
ORIGINAL REFERENCE NO.: 47:2473i,2480a-b
TITLE: Synthesis of some substituted tetrazolium chlorides
AUTHOR(S): Fox, Sydney W.; Atkinson, Klaus Hemmingson
CORPORATE SOURCE: Iowa State Coll., Ames
SOURCE: Journal of the American Chemical Society (1950), 72, 3629-31
CODEN: JACSAT; ISSN: 0002-7863
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
OTHER SOURCE(S): CASREACT 47:13874
AB cf. C.A. 44, 5874g. p-IC6H4NHNHC(NPh)Ph (10 g.) in 250 ml. CHCl3 and 250 ml. MeOH, treated with 6 ml. BzNO2 and then with 10 ml. concentrated HCl and allowed to stand 4 hrs., gives 55-60% 3,5-diphenyl-2-(p-iodophenyl)-2H-tetrazolium chloride, m. 232-3° (Gilligman, et al., C.A. 43, 9060b, reported 176°); the product m. 232-3° produced a definite, crystalline x-ray pattern, whereas the compound of S. gave an amorphous pattern; a HCl salt hydrate could not be prepared p-IC6H4NHCl and p-IC6H4NHNH(CNPh) gave 42-51% N,N'-bis(p-iodophenyl)-C-phenylformazan, m. 169-70°, thus yields 41% 2,3-bis(p-iodophenyl)-5-phenyl-2H-tetrazolium chloride, m. 256°, not readily soluble in H2O (0.1 g./100 g. H2O at 25° by nonrepeatable method). N-(p-Iodophenyl)-N'-(p-nitrophenyl)-C-phenylformazan, m. 185-6° (yields up to 58%; 3-(p-Iodophenyl)-2-(p-nitrophenyl)-5-phenyl-2H-tetrazolium chloride, m. 229°, 30%. Absorption curves are given for the formazans.
IT 136196-46-09
RL: SPN (Synthetic preparation); PRP (Properties); PREP (Preparation)
(synthesis of some substituted tetrazolium chlorides)
RN 136196-46-8 CAPLUS
CN Methanone, [2-(4-nitrophenyl)diazenyl]phenyl-, 2-(4-iodophenyl)hydrazone (CA INDEX NAME)



IT 7781-49-9P, Toluene, α-[p-Iodophenylazo)-α-[(p-nitrophenyl)hydrazono]- 857001-69-5P, Toluene, α-[p-Iodophenylazo)-α-[(p-Iodophenyl)hydrazono]-
RL: PREP (Preparation)
(preparation of)
RN 7781-49-9 CAPLUS
CN Methanone, [2-(4-Iodophenyl)diazenyl]phenyl-, 2-(4-nitrophenyl)hydrazone (CA INDEX NAME)

L38 ANSWER 104 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1924:4936 CAPLUS
DOCUMENT NUMBER: 18:4936
ORIGINAL REFERENCE NO.: 18:670g-i,671a-i,672a-i,673a
TITLE: Relationship between color and constitution in the nitrobenzaldehyde hydrazones
AUTHOR(S): Chattaway, Frederick Daniel; Clemo, George Roger
SOURCE: Journal of the Chemical Society, Transactions (1923), 123, 3041-62
CODEN: JCHTAB; ISSN: 0368-1645
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
AB When the NO2 group is in the aldehyde residue it is necessary for the production of vivid color not only that the NO2 group should occupy the o- or p-position with regard to the CH: group of the aldehyde residue but also that a H atom should be attached to the N atom contiguous to the cyclic residue of the hydrazine, i. e., the hydrazone must be derived from a primary hydrazine. When, however, the NO2 group is in the hydrazine residue, although it must occupy the o- or p-position with respect to the N chain, the presence of a H atom attached to the C atom of the chain is not necessary as vivid colors are produced by the α- and p-PhNHNH2 derivs. of ketones such as AcMe, PhAc, PhAcO2, etc. Although a quinonoid configuration is not a necessary condition of color, intense color is frequently associated with it and it seems reasonable to assume that those under discussion are due to the presence of such a configuration within the mol. Further alteration in structure appears to be necessary for the production of the intense green or blue color by alkalies when the NO2 group is in the o- or p-position in the aldehyde residue, for the assumption of tautomeric change gives no explanation of the fact that these colors are not given by the similarly constituted derivs. of unsym. keto- hydrazines. The explanation is probably to be sought in the greater mobility of the imino H atom, which migrates to the C atom of the aldehyde group with the consequent production of an ato linking between the N atoms. An equally satisfactory explanation of the deep-brown color by alkalies when the NO2 group is in the m-position is not forthcoming. The fact that all the red or scarlet hydrazones give pure yellow EtOH solns. on sufficient dilution indicates that the color only appears when the mols. are brought into close proximity in the solid state. The assumption is stated that the color is due to an attraction which acts effectively over a limited distance only, between the NO2 group of 1 mol. and the NH group of another In the following, are given, in order, the name of the derivative, color (alkalie form is always described 1st, if the compound exists in polymorphic modifications), color produced by adding a saturated EtOH solution of KOH to its EtOH solution and finally any further change of color brought about by heating this colored solution o-O2NC6H4CH:NNHPh, crimson, bright green, unaltered. o-Derivative, bright orange, deep brown, darker shade. p-Derivative, dark crimson, deep greenish blue, bright Co-blue. o-Nitrobenzaldehyde o-tolylhydrazone, scarlet, m. 149.5°, greenish brown, dark olive-green. p-Derivative, reddish orange, m. 162°,

L38 ANSWER 103 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)



RN 857001-69-5 CAPLUS
CN Methanone, [2-(4-Iodophenyl)diazenyl]phenyl-, 2-(4-Iodophenyl)hydrazone (CA INDEX NAME)

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L38 ANSWER 104 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)
olive-green; dark olive-green. m-Deriv., reddish orange, m. 170°, yellow, unaltered. m-Nitrobenzaldehyde m-tolylhydrazone, bright yellow, m. 127.5°, orange, slightly browner. o-Deriv., garnet-red, m. 129.5°, greenish brown, dark olive-green. p-Deriv., dark crimson, m. 109°, deep olive-green, bright green. o-Nitrobenzaldehyde p-tolylhydrazone, dark garnet-red, m. 150.5°, dark brown, dark olive-green. m-Deriv., bright orange-yellow, m. 150.5°, pale brown, deep brown. p-Deriv., reddish orange, m. 161.5°, dark olive-green, Co-blue. o-Nitrobenzaldehyde o-chlorophenylhydrazone, bright orange, m. 156°, olive-green, brighter green. p-Deriv., scarlet, m. 194°, bluish green, deep Co-blue. o-Nitrobenzaldehyde m-chlorophenylhydrazone, bright scarlet, m. 170°, dark olive-green, lighter green. m-Deriv., bright orange, m. 134°, deep brown, darker brown. p-Deriv., deep crimson, m. 147°, dark bluish green, deep Co-blue. o-Nitrobenzaldehyde p-chlorophenylhydrazone, dark crimson, m. 181°, dark olive-green, clear green. m-Deriv. bright orange, m. 153°, pale brown, dark brown. p-Deriv., dark crimson, m. 158°, bright green, indigo-blue. o-Nitrobenzaldehyde o-bromophenylhydrazone, bright orange, m. 158°, bright green, unaltered. m-Deriv., bright yellow, m. 145.5°, pale brown, dark brown. p-Deriv., bright scarlet, m. 204°, bright green, bright Co-blue. o-Nitrobenzaldehyde m-bromophenylhydrazone: labile, slender scarlet prisms; stable, bright crimson, 6-sided rhombic prisms, m. 181°, dark olive-green, clear green. m-Deriv., labile, slender orange-red prisms; stable, small bright yellow needles, m. 128°, pale brown, dark brown. p-Deriv., crimson, m. 150.5, deep green, indigo-blue. o-Nitrobenzaldehyde o-iodophenylhydrazone, bright orange, m. 149°, clear green, unchanged. m-Deriv., labile, flat yellow prisms; stable, deep orange, m. 171°, pale brown, deep, clear brown. p-Deriv., dull scarlet, m. 202°, greenish blue, deep Co-blue. o-Nitrobenzaldehyde m-iodophenylhydrazone, garnet-red, m. 188°, dark olive-green, clear green. m-Deriv., orange, m. 156.5°, brown, dark brown. p-Deriv., garnet-red, m. 149.5°, clear green, deep Co-blue. o-Nitrobenzaldehyde 2,4-dichlorophenylhydrazone, bright scarlet, m. 192.5°, dark olive-green, unaltered. m-Deriv., yellow, m. 211.5°, pale brown, dark brown. p-Deriv., labile, slender, bright orange needles; stable, short, brilliant scarlet rhombic prisms, m. 202°, deep greenish blue, bright Co-blue. o-Nitrobenzaldehyde 2,5-dichlorophenylhydrazone, labile, slender, bright orange needles; stable, compact bright orange rhombic prisms, m. 159°, dark olive green, unchanged. m-Deriv., bright orange, m. 173.5°, pale brown, deep brown. p-Deriv., bright orange, m. 222°, deep indigo-blue, unaltered. o-Nitrobenzaldehyde 2,6-dibromophenylhydrazone, bright orange, m. 132°, clear bluish green, rather more blue. m-Deriv., canary-yellow, m. 128°, pale brown, dark brown. p-Deriv., bright orange, m. 168°, clear Co-blue, unaltered. o-Nitrobenzaldehyde 2,4-dibromophenylhydrazone, dark brownish crimson, m. 218°, dark olive-green, unaltered. m-Deriv., reddish orange, m. 176°, reddish brown, darker brown. p-Deriv., dark crimson, m. 241°, deep indigo-blue, Co-blue. o-Nitrobenzaldehyde 2-chloro-4-bromophenylhydrazone; labile, deep orange hair-like needles; stable, brilliant scarlet 6-sided prisms, m. 192-3°, dark olive-green, unaltered. m-Deriv., bright yellow, m. 213°, pale brown, clear dark brown. p-Deriv., bright scarlet, m. 196-7°, intense Co-blue, unaltered. o-Nitrobenzaldehyde 4-chloro-2-bromophenylhydrazone, bright scarlet, m. 203°, dark olive-green, unaltered. m-Deriv., bright yellow, m. 201°, pale

L38 ANSWER 104 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)

brown, clear dark brown. p-Deriv., labile, bright orange, flattened prisms; stable, bright scarlet 6-sided prisms, m. 198-9°, deep Co-blue, unaltered. o-Nitrobenzaldehyde 2,4,6-trichlorophenylhydrazone, bright yellow, m. 167°, deep greenish blue, unaltered. m-Deriv., labile, thin, bright yellow plates; stable, bright orange-red prisms, m. 159°, pale brown, dark brown. p-Deriv., canary-yellow, m. 212°, brilliant Co-blue, unaltered. o-Nitrobenzaldehyde 3,4,5-trichlorophenylhydrazone, brick-red, m. 273°, dark olive-green, unaltered. m-Deriv., orange-yellow, m. 275°, pale brown, clear dark brown. p-Deriv., vermillion-red, m. 305-8°, deep clear Co-blue, unaltered. o-Nitrobenzaldehyde 2,4,6-tribromophenylhydrazone, pure yellow, m. 169.5°, bluish green, deeper green. m-Deriv., bright yellow, m. 171°, pale brown, dark brown. p-Deriv., bright yellow, m. 200°, intense Co-blue, unaltered. o-Nitrobenzaldehyde 2,4,5-tribromophenylhydrazone, pale orange, m. 220-1°, dark olive-green, unaltered. m-Deriv., bright orange-yellow, m. 251-2°, brown, dark brown. p-Deriv., deep orange, m. 261°, intense Co-blue, unaltered. o-Nitrobenzaldehyde 2-chloro-4-methylphenylhydrazone, bright crimson, m. 160°, dark olive-green, dark emerald-green. m-Deriv., bright orange, m. 174-5°, slight brown, unaltered. p-Deriv., vivid scarlet, m. 140°, deep bluish green, more blue in shade. o-Nitrobenzaldehyde 4-chloro-2-methylphenylhydrazone, bright crimson, m. 184-5°, brownish green, dark olive-green. m-Deriv., orange-yellow, m. 235-6°, pale brown, unaltered. p-Deriv., crimson, m. 224°, clear green, bluish green. o-Nitrobenzaldehyde 4-iodo-2-methylphenylhydrazone, labile, dark garnet-red needles; stable, bright crimson rhombic prisms, m. 179°, faint green clear dark green. m-Deriv., orange, m. 187.5°, unaltered, slightly brown. p-Deriv., deep garnet-red, m. 195°, olive-green, bright green. o-Nitrobenzaldehyde 2,6-dibromo-4-methylphenylhydrazone, reddish orange, m. 136-7°, deep clear green, darkens. m-Deriv., bright yellow, m. 141.5°, pale brown, darker brown. p-Deriv., bright orange, m. 186°, intense Co-blue, unaltered. o-Nitrobenzaldehyde 2,4,5-trimethylphenylhydrazone, dark crimson, m. 141.5° dark brown, olive-green. m-Deriv., reddish brown, m. 171°, brownish yellow, unaltered. p-Deriv., dark garnet-red, m. 179°, greenish brown, dark green, almost black. o-Nitrobenzaldehyde 4-hydroxyphenylhydrazone, dark purple, m. 192-3°, deep indigo-blue, changing to pale brown and then to a purple shade becoming blue on heating. m-Deriv., dark crimson, m. 174-5°, dark brown, becoming deep indigo-blue. p-Deriv., dark purple, almost black, m. 212°, brilliant deep violet, fading to dirty brown and then changing through pale indigo-blue to deep clear blue. o-Nitrobenzaldehyde 2-methoxyphenylhydrazone, crimson, m. 133°, brown, brownish olive-green. m-Deriv., labile, reddish orange prisms; stable, dark orange-red stout prisms, m. 166.5°, very pale brown, unaltered. p-Deriv., deep crimson, m. 161-5°, greenish brown, olive- green. o-Nitrobenzaldehyde 3-methoxyphenylhydrazone, garnet-red, m. 150°, brown, olive-green. m-Deriv., labile, deep yellow prisms; stable, stout deep orange rhombic plates, m. 127°, brown, dark brown. p-Deriv., bright scarlet, m. 155°, clear green, unaltered. o-Nitrobenzaldehyde 4-methoxyphenylhydrazone, brownish red, m. 183-4°, greenish brown, dark olive-green. m-Deriv., bright orange, m. 130.5°, brownish orange, clear dark brown. p-Deriv., dark crimson, m. 182°, dark olive-green, indigo-blue. o-Nitrobenzaldehyde 2-carboxyphenylhydrazone, orange-red, m. 242-3°, reddish brown, unaltered or olive-green. m-Deriv., pale yellow, m. 267°, unaltered, even on heating. p-Deriv., reddish orange, m. 283-5°, olive-green, clear green.

L38 ANSWER 104 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)

o-Nitrobenzaldehyde 3-carboxyphenylhydrazone, labile, small, brownish crimson needles; stable, short bright crimson prisms, m. 260° (decompn.), greenish brown, dark olive-green. m-Deriv., deep orange, m. 252°, brownish orange, deepens in shade. p-Deriv., bright orange-yellow, m. 272° (decompn.), clear green, blue. o-Nitrobenzaldehyde 4-carboxyphenylhydrazone, reddish orange, m. 276° (decompn.), deep olive-green, unaltered. m-Deriv., bright orange, m. 278°, pale brown, deep brown. p-Deriv., dull scarlet, m. 285°, deep clear green, blue. o-Nitrobenzaldehyde α-naphthylhydrazone, deep crimson, m. 148°, greenish brown, dark olive-green. m-Deriv., dark reddish orange, m. 197°, pale brown, unaltered. p-Deriv., dark crimson, m. 205°, dark greenish blue, clear Co-blue. o-Nitrobenzaldehyde β-naphthylhydrazone, dark red, m. 208°, greenish brown, dark olive-green. m-Deriv., pale yellow, m. 202°, brownish yellow, pale brown. p-Deriv., deep orange, m. 232° greenish blue, deep Co-blue. The derivs. prepd. from sec. hydrazines show no alteration in the color of

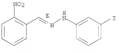
the EtOH soln. when KOH is added, even on heating. o-Nitrobenzaldehyde carbazylhydrazone, dull orange, m. 149°, color unaltered even on heating. m-Deriv., pale yellow, m. 195°. p-Deriv., yellow, m. 220°. o-Chlorobenzaldehyde o-chlorophenylhydrazone, m. 121°, slight yellow, bright yellow. The o-bromophenylhydrazone, m. 125°. o-Chlorobenzaldehyde 2,4-dichlorophenylhydrazone, m. 173°. 2,4-Cl2 deriv., m. 172°. 2,5-Cl2 deriv., m. 150°. 2,6-Cl2 deriv., m. 174°. o-Chlorobenzaldehyde 2,4,6-tribromophenylhydrazone, m. 150.5°. 2-Chloro-4-methylphenylhydrazone, m. 123.5°, pale yellow. 4-Chloro-2-methyl deriv., m. 150° and is pale yellow. 4-Iodo-2-methyl deriv., very pale yellow, m. 137°. 4-Nitrophenylhydrazone is bright orange, m. 249°. In EtOH-KOH it is intensely violet. 2,5-Dichloro-6-nitrobenzaldehyde phenylhydrazone, deep orange, m. 153°. 2,4-Dichloro-5- nitro deriv., bright yellow, m. 237°. 2,5-Dichloro-6-nitrobenzaldehyde 2,4-dichlorophenylhydrazone, bright yellow, m. 211°. 2,6-Dichloro-3-nitro deriv., bright yellow, m. 170°. 2,5,6-Trichloro-3-nitro deriv., pure yellow, m. 233°. 2,4-Dichloro-5-amino deriv., m. 190°. 2,4-Dinitrobenzaldehyde 2,4-dinitrophenylhydrazone, bright yellow, m. 258°, deep Co-blue, unaltered. 2,4,6-Trinitro deriv., orange, m. 208°, brilliant blue, almost colorless on boiling. o-Nitrobenzylidene-4-methylaminoaniline, reddish orange, m. 118°. m-Deriv., bright yellow, m. 182°. p-Deriv., deep purple, m. 203°. The last 3 are unaltered on boiling.

IT 1194782-24-5P 1194782-68-7P 1194812-56-0P
RL: SPN (Synthetic preparation); PRP (Properties); PREP (Preparation)
(Relationship between color and constitution in the nitrobenzaldehyde hydrazones)

RN 1194782-24-5 CAPLUS
CN Benzaldehyde, 2-nitro-, 2-(3-iodophenyl)hydrazone, [C(E)]- (CA INDEX NAME)

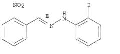
Double bond geometry as shown.

L38 ANSWER 104 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)



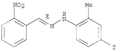
RN 1194782-68-7 CAPLUS
CN Benzaldehyde, 2-nitro-, 2-(2-iodophenyl)hydrazone, [C(E)]- (CA INDEX NAME)

Double bond geometry as shown.



RN 1194812-56-0 CAPLUS
CN Benzaldehyde, 2-nitro-, 2-(4-iodo-2-methylphenyl)hydrazone, [C(E)]- (CA INDEX NAME)

Double bond geometry as shown.



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L38 ANSWER 105 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 1914:10596 CAPLUS
DOCUMENT NUMBER: 8:10596
ORIGINAL REFERENCE NO.: 8:1570a-d

TITLE: Derivatives of p-iodoaniline

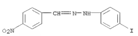
AUTHOR(S): Chattaway, Frederick D.; Constable, Alfred

SOURCE: Journal of the Chemical Society, Transactions (1914), 105, A124-31
CODEN: JCHTA3; ISSN: 0368-1645
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable

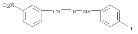
AB p-IC6H4NHAc, rhombic prisms, m. 184°, may be obtained in 90% yield by the action of ICl (containing 129 grams I) on 135 g. PhNHAc in 150 cc. glac. AcOH, and may be readily hydrolyzed by means of alc. NaOH to p-IC6H4NH2 (a), m. 61-2°, which only decomps. if heated above 200°. (a) was the parent substance of the following derivs.: p-iodopropionanilide (2 modifications, unstable needles, readily changing to stable granules); benzo-p-iodoanilide; prisms, m. 222°, p-nitrobenzo-p-iodoanilide, Prisms, m. 202°; p-isomer, needles, m. 269°; phenylaceto-p-iodoanilide, needles, m. 200°; p-iodophthalanil, prisms, m. 235° (Gabriel, Ber., 11, 2261, gives 227-8°); o-nitrobenzaldehyde-p-iodophenylhydrazone, garnet-red prisms, m. 196° (decompose); m-isomer, scarlet prisms, m. 148° (decompose); p-isomer, garnet-red prisms, m. 158°; cinnamaldehyde-p-iodophenylhydrazone, yellow needles, decompose 140°; 4-p-iodobenzeneazophenol, brown plates, m. 172°; p-iodobenzeneazo-β-naphthol, red prisms with green luster, m. 178°; ethyl p-iodophenylcarbamate, prisms, m. 117°; methyl ester, prisms, m. 142°; ethyl p-iodo-oxanilate, plates, m. 153°; sym.-ai-p-iodomalonanilide, needles, m. 267° (decompose); ethyl p-iodomalonanilate, plates, m. 120°; (p-IC6H4NH)2CO, needles, does not m. below 350° (cf. Vittenet, Bulletin society chim., [3] 21, 305); p-iodophenylcarbamide, plates, does not m. below 300°.

IT 381676-44-4P, Benzaldehyde, p-nitro-, (p-iodophenyl)hydrazone
677740-95-3P, Benzaldehyde, m-nitro-, (p-iodophenyl)hydrazone
677755-66-7P, Benzaldehyde, o-nitro-, (p-iodophenyl)hydrazone
RL: PREP (Preparation)
(preparation of)

RN 381676-44-4 CAPLUS
CN Benzaldehyde, 4-nitro-, 2-(4-iodophenyl)hydrazone (CA INDEX NAME)



RN 677740-95-3 CAPLUS
CN Benzaldehyde, 3-nitro-, 2-(4-iodophenyl)hydrazone (CA INDEX NAME)



L38 ANSWER 105 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)
RN 677755-66-7 CAPLUS
CN Benzaldehyde, 2-nitro-, 2-(4-iodophenyl)hydrazone (CA INDEX NAME)

L38 ANSWER 106 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1914:10595 CAPLUS
DOCUMENT NUMBER: 8:10595
ORIGINAL REFERENCE NO.: 8:1570a-d
TITLE: Derivatives of p-iodoaniline
AUTHOR(S): Chattaway, Frederick D.; Constable, Alfred
CORPORATE SOURCE: Oxford
SOURCE: Proceedings of the Chemical Society, London (1914), 29, 304
CODEN: PCSLAW, ISSN: 0369-8718
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
AB p-IC6H4NHAc, rhombic prisms, m. 184°, may be obtained in 90% yield by the action of IC1 (containing 129 g I) on 135 g. PhNHAc in 150 cc. glac. AcOH, and may be readily hydrolyzed by means of alc. HaCOH to p-IC6H4NH2 (a), m. 61-2°, which only decomps. if heated above 360°. (a) was the parent substance of the following derivs.: p-Iodopropionanilide (I modification), matted needles, readily changing to stable granules; p-Iodo-p-iodoanilide prisms, m. 222°. p-Nitrobenzo-p-iodoanilide, prisms, m. 202°; p-picrol, needles, m. 269°; phenylaceto-p-iodoanilide, needles, m. 200°; p-iodophthalanil, prisms, m. 235° (Gabriel, Ber., 21, 2261, gives 227-8°); o-nitrobenzaldehyde-p-iodophenylhydrazone, garnet-red prisms, m. 196° (decomposes); m-isomer, scarlet prisms, m. 168° (decomposes); p-isomer, garnet-red prisms, m. 150°; cinnamaldehyde-p-iodophenylhydrazone, yellow needles, decomposes 140°; 4-p-iodobenzenesulphonol, brown plates, m. 172°; p-Iodobenzeneazo-β-naphthol, red prisms with green luster, m. 178°; Et p-iodophenylcarbonate, prisms, m. 117°; Me ester, prisms, m. 142°; Et p-iodo-oxanilate, plates, m. 153°; syn.-bi-p-Iodomalonanilide, needles, m. 267° (decomposes); Et p-iodomalonanilate, plates, m. 128°; [p-IC6H4NHCO]2CO, needles, does not m. below 350° (cf. Vittenet, Bulletin society chim., [3] 21, 905); p-Iodophenylurkenamide, plates, does not m. below 360°.
IT 381676-44-4P, Benzaldehyde, p-nitro-, (p-Iodophenyl)hydrazone 677740-95-1P, Benzaldehyde, m-nitro-, (p-Iodophenyl)hydrazone 677755-66-7P, Benzaldehyde, o-nitro-, (p-Iodophenyl)hydrazone
RL: PREP (Preparation)
(preparation of)
RN 381676-44-4 CAPLUS
CN Benzaldehyde, 4-nitro-, 2-(4-iodophenyl)hydrazone (CA INDEX NAME)

RN 677740-95-1 CAPLUS
CN Benzaldehyde, 3-nitro-, 2-(4-iodophenyl)hydrazone (CA INDEX NAME)

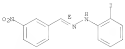
L38 ANSWER 106 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN (Continued)
RN 677755-66-7 CAPLUS
CN Benzaldehyde, 2-nitro-, 2-(4-iodophenyl)hydrazone (CA INDEX NAME)

L38 ANSWER 107 OF 108 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 1907:7184 CAPLUS
DOCUMENT NUMBER: 1:7184
ORIGINAL REFERENCE NO.: 1:1719b-i,1720a-d
TITLE: The Action of Mono- and Dichloracetic Acid on Primary Hydrazines
AUTHOR(S): Busch, M.; Neussedfer, Eduard
CORPORATE SOURCE: Chem. Lab. Erlangen
SOURCE: Journal fuer Praktische Chemie (Leipzig) (1907), 75, 123-41
CODEN: JPCEAO, ISSN: 0021-8383
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
AB (1) The reaction of phenylhydrazine with monochloracetic acid (Ber., 36, 3877) is extended to other arylhydrazines for the purpose of determining the conditions and groups that favor the condensation: RNHNH2 + ClCH2COOH = RN (NH2).CH2COOH + HCl. Hydrazines containing ortho-substituted nuclei, e. g. o-tolyl-, o-anisyl-, o-chlor-, α-naphthyl-, as well as β-naphthylhydrazines failed to give the reaction. Spacial interference by these ortho groups cannot be the explanation of their indifference, for a symmetrical xylylhydrazine condenses as easily as the unsymmetrical xylylhydrazine. (2) Primary hydrazines condense easily with dichloracetic acid (RNHNH2 + ClCHCOOH = RNHN (CHCOOH + 2HCl), forming about 75% yields of glyoxylic hydrazones. When treated with nitrous acids these glyoxylic acids yield azoformaldoximes, RN:NCH:NOH, cf. pr. Chem, 71, 368) in the case of o-chlor- and p-chlorphenyl-, p-nitrophenyl- and o-anisyl-, but not in the case of o-brom-, o-iodo-, and o-nitro-compounds. Experimental. (1) Monochloracetic acid, like monochloracetic ester (Ber., 36, 3880), when neutralized by KOH and treated with 2 mols. of phenylhydrazine, yielded the two isomeric α- and β-nitrogen hydrazinoacetic acids. o-Tolylhydrazine and monochloracetic acid yield small quantities of o-tolylhydrazinoacetic acid, yellow, white crystals, m. 140°, with m-nitrobenzaldehyde it gave m-nitrobenylidene-o-tolylhydrazone, red needles m. 170°. The following compounds were obtained in a similar manner. α-Tolylhydrazinoacetic acid, CH3NH(NH2)CH2COOH, colorless, glistening leaflets, m. 155°, easily soluble in alcohol and acetic acid, difficultly soluble in ether, benzene and chloroform. m-Nitrobenzalhydrazinoacetic acid, CH3NH (=NCH-C6H4NO2)CH2COOH, lemon-yellow needles, m. 151°, easily soluble in ordinary organic solvents. p-Tolylhydrazinoacetic acid, light yellow needles, m. 166°. m-Nitrobenzal-p-tolylhydrazinoacetic acid, yellow needles, m. 191°. Paratolylhydrazinoacetic ethyl ester, white needles, m. 123°-25°. m-Nitrobenzal-p-tolylhydrazinoacetic ester, yellow needles, m. 123°-24°, easily soluble in alcohol, less soluble in boiling benzene and difficultly soluble in ether Asymmetrical m-tolylhydrazinoacetic acid, white glistening leaflets, m 160°; its m-nitrobenzylidenehydrazone, glistening yellow prisms, m. 169°, its benzylidenehydrazone, green-yellow, glistening needles, m. 158. Asymmetrical p-anisylhydrazinoacetic acid, CH3OC6H4NH(NH2)CH2COOH, white leaflets m. 137°, difficultly soluble in acetic acid and insoluble in ether and benzene; its m-nitrobenzalhydrazone, yellow needles, m. 159°. Asymetrical p-bromphenylhydrazinoacetic acid, BrC6H4NH(NH2)CH2COOH, white needles, m. 138°; its

m-nitrobenzalhydrazone, yellow needles, m. 158°; the symmetrical acid, BrC4H4NH.NHCH2COOH, m. 150°. (2) Glyoxylphenylhydrazone, 137°. (Ann., 227, 353) and phenylazoformaldoxime, m. 94°. (Ber., 35, 1087; J. pr. Chem., 72, 380) were prepared with excellent yields. Glyoxyl-o-anisylhydrazone, CH2OC6H4NHN:CHCOOH, yellow-brown tablets, m. 115°, easily soluble in alcohol, more difficultly soluble in ether, boiling benzene and gasolene; its azoformaldoxime (J. pr. Chem., 71, 381), red-yellow needles m. 153-54°. o-Chlorphenylhydrazine was prepared; it gave with m-nitrobenzaldehyde, m-nitrobenzylidene-o-chlorphenylhydrazone, ClC6H4NHN :CHC6H4NO2, yellow needles, m. 150°, easily soluble in ether and benzene, difficultly soluble in alcohol. Glyoxyl-o-chlorphenylhydrazone, ClC6H4NHN:CHCOOH, lemon-yellow needles, m. 145°, easily soluble in alcohol and chloroform, less soluble in ether and benzene; its azoformaldoxime was prepared, red needles, m. 150° (J. pr. Chem., 71, 376). Glyoxyl-p-chlorphenylhydrazone, glistening red needles m. 142°, easily soluble in alcohol and ether, difficultly soluble in benzene, and insoluble in gasolene o-Bromphenylhydrazone, m. 148, was prepared by V. Meyer's method; with dichloracetic acid it yielded cis and trans isomeric glyoxyl-o-bromphenylhydrazones (J. pr. Chem., 71, 379), yellow needles, m. 160°, difficultly soluble in benzene, and white needles, m. 147°, easily soluble in benzene; neither form yielded an azoformaldoxime. o-Iodophenylhydrazine yields m-nitrobenzylidene-o-iodophenylhydrazone, yellow needles, m. 170°, easily soluble in chloroform, benzene and acetic acid, difficultly soluble in alcohol. Glyoxyl-o-iodophenylhydrazone, yellow leaflets, m. 156°, is indifferent toward nitrous acid; so also is the corresponding o-nitro-compound; the p-nitro-compound yields p-nitrophenylazoformaldoxime, red needles, m. 118°.

IT 1194804-74-4P
RL: SPN (Synthetic preparation); PRP (Properties); PREP (Preparation)
(The Action of Mono- and Dichloracetic Acid on Primary Hydrazines)
RN 1194804-74-4 CAPLUS
CN Benzaldehyde, 3-nitro-, 2-(2-iodophenyl)hydrazone, [C(E)]- (CA INDEX NAME)

Double bond geometry as shown.



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ACCESSION NUMBER: 1907:2195 CAPLUS
DOCUMENT NUMBER: 1:2195
ORIGINAL REFERENCE NO.: 1:558h-i,559a-c

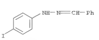
TITLE: Studies on Unsaturated Acids. IV. On Iodophenylhydrazine

AUTHOR(S): Fichter, Fr.; Philipp, Karl
CORPORATE SOURCE: Chemical Institute, Univ. of Basel

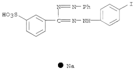
SOURCE: Journal fuer Praktische Chemie (Leipzig) (1907), 74, 297-339
CODEN: JPCEAO; ISSN: 0021-8383
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable

AB (1) 5-Iodo-2-acetaminotoluene, C9H16ONI, from o-acettoluidide and iodine chloride, m. 168°. (2) 5-Iodo-2-amino-toluene, C7H3NI, m. 88°. (3) 5-Iodo-o-tolylhydrazine, C7H9N3I, by reduction of the potassium salt of diazoiodotoluenesulphonic acid with Sn and HCl, m. 98°. (4) Benzylidene-4-iodophenylhydrozone, C19H21N2I, from benzaldehyde and 4-iodophenylhydrazine, m. 121°. (5) 4-Iodobenzylidenephenylhydrazone, C13H11N2I, m 90°. (6) Benzylidine-2,4-diiodophenylhydrazone, C13H19N2I3, from 2,4-diiodophenylhydrazine, m. 104. (7) Benzylidine-5-iodo-o-tolylhydrazone, C14H13N2I, from (3), m. 102-103°. (8) II-p-Iodoformazylbenzene, C19H16N4I, from benzylidine-4-iodo-phenylhydrazone and diazobenzene, m. 185-186°. (9) Sodium II-p-iodoformazylbenzene-I-m-sulphonate, C19H14N4ISO8Na, from diazobenzene and 4-iodophenyl-hydrazone of benzaldehyde-m-sulphonic acid. (10) II-2,4-Diiodoformazylbenzene, C19H14N4I2, m. 186°. (11) II-5-Iodotolylformazylbenzene, C29H17N4I, from (7) and diazobenzene, m. 167°. (12) I-p-Iodophenyl-3-methyl-5-pyrazolone, C19H3N3I, from 4-iodophenylhydrazine and acetoacetic ester, m. 196°. (13) 1-p-Iodophenyl-3-methyl-4-isonitroso-5-pyrazolone, C19H8O2N3I, m. 189°. (14) 1-p-Iodophenyl-2,3-di-methyl-5-pyrazolone-p-iodoantipyrine, C11H11ON2I, by methylation of (12), m. 126°; more poisonous than antipyrine. (15) 1-o,p-Diiodo-3-methyl-5-pyrazolone, C1?H?ON2I2, m. 153°. (16) 1-Iodo-o-tolyl-3-methyl-5-pyrazolone, C11H11ON2I, m. 194°; gives an isonitroso derivative, C11H11O2N3I, m. 181°. (17) p-Iodophenylmethyl-3-pyrazolone, C10H9ON2I, or its isomeric 5-pyrazolone, from 4-iodophenylhydrazine and mesadibrompyrotaric acid, m. 126°.

IT 65447-26-9P
RL: SPN (Synthetic preparation); PRP (Properties); PREP (Preparation)
(Studies on Unsaturated Acids. IV. On Iodophenylhydrazine)
RN 65447-26-9 CAPLUS
CN Benzaldehyde, 2-(4-iodophenyl)hydrazone (CA INDEX NAME)



IT 861601-66-3P, Benzenesulfonic acid, 3-(phenylazoformyl)-, p-iodophenylhydrazone, Na salt
RL: PREP (Preparation)
(preparation of)
RN 861601-66-3 CAPLUS
CN Benzenesulfonic acid, 3-[[2-(4-iodophenyl)hydrazinylidene](2-phenyldiazenyl)methyl]-, sodium salt (1:1) (CA INDEX NAME)



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